IPAD Scheda 3 - Acquisto, Leasing e Noleggio di computer e apparecchiature elettriche ed elettroniche

Verifiche e controlli da condurre per garantire il principio DNSH

Tempo di svolgimento delle verifiche	n.	Elemento di controllo	Esito (Sì/No/Non applicabile)	Commento (obbigatorio in caso di N/A)
Ex-ante	1	E' disponibile l'iscrizione alla piattaforma RAEE in qualità di produttore e/o distributore e/o fornitore?	Sì	
	2	I prodotti elettronici acquistati sono dotati di un'etichetta ambientale di tipo I, secondo la UNI EN ISO 14024, ad esempio TCO Certified, EPEAT 2018, Blue Angel, TÜV Green Product Mark o di etichetta equivalente)	Sì	*EPEAT 2018 GOLD*
	In caso di assenza di un etichetta ambientale di tipo I dovranno essere verificati i requisiti seguenti al posto del punto 2			
	3	L'AEE è dotata di Etichetta EPA ENERGY STAR?		
	In alternativa al punto 3, rispondere al punto 3.1			
	3.1	E' disponibile una dichiarazione del produttore che attesti che il consumo tipico di energia elettrica (Etec), calcolato per ogni dispositivo offerto, non superi il TEC massimo necessario (Etec-max) in linea con quanto descritto nell'Allegato III dei criteri GPP UE ?		
	4	Nel caso di server e prodotti di archiviazioni dati, è disponibile la dichiarazione dei produttori/fornitori di conformità alla seguente normativa: ecodesign (Regolamento (EU) 2019/424)?		
	5	Nel caso di computer fissi e display, è presente la marcatura di alloggiamenti e mascherine di plastica secondo gli standard ISO 11469 e ISO 1043?		
	6	Nel caso di fornitura di apparecchiature TIC ricondizionate/rifabbricate, è disponibile una delle certificazioni di sistema di gestione seguente: •ISO 9001 e ISO 14001/regolamento EMAS (certificazione di sistema di gestione disponibile sotto accreditamento –il campo di applicazione della certificazione dovrà riportare lo specifico scopo richiesto); •EN 50614:2020 (qualora l'apparecchiatura sia stata precedentemente scartata come rifiuto RAEE, e preparata per il riutilizzo per lo stesso scopo per cui è stata concepita)?		
	7	E' disponibile una dichiarazione del produttore/fornitore di rispetto della seguente normativa: REACH (Regolamento (CE) n.1907/2006); RoHS (Direttiva 2011/65/EU e ss.m.i.); Compatibilità elettromagnetica (Direttiva 2014/30/UE e ss.m.i.)?		
	8	Sono state indicate le limitazioni delle caratteristiche di pericolo dei materiali che si prevede utilizzare (Art. 57, Regolamento CE 1907/2006, REACH)?		
	Alle apparecchiature per stampa, copia, multifunzione e servizi di Print&Copy si applica un requisito trasversale			
	9	E' verificata la conformità alle specifiche tecniche e clausole contrattuali dei Criteri ambientali minimi "Affidamento del servizio di stampa gestita, affidamento del servizio di noleggio di stampanti e di apparecchiature multifunzione per ufficio e acquisto o il leasing di stampanti e di apparecchiature multifunzione per ufficio, approvato con DM 17 ottobre 2019, in G.U. n. 261 del 7 novembre 2019" ?		

Monitor Promethean Scheda 3 - Acquisto, Leasing e Noleggio di computer e apparecchiature elettriche ed elettroniche

Verifiche e controlli da condurre per garantire il principio DNSH

Tempo di svolgimento delle verifiche	n.	Elemento di controllo	Esito (Sì/No/Non applicabile)	Commento (obbigatorio in caso di N/A)
Ex-ante	1	E' disponibile l'iscrizione alla piattaforma RAEE in qualità di produttore e/o distributore e/o fornitore?	Sì	
	2	I prodotti elettronici acquistati sono dotati di un'etichetta ambientale di tipo I, secondo la UNI EN ISO 14024, ad esempio TCO Certified, EPEAT 2018, Blue Angel, TÜV Green Product Mark o di etichetta equivalente)	no	
	In caso di assenza di un etichetta ambientale di tipo I dovranno essere verificati i requisiti seguenti al posto del punto 2			
	3	L'AEE è dotata di Etichetta EPA ENERGY STAR?	SI	
	In alternativa al punto 3, rispondere al punto 3.1			
	3.1	E' disponibile una dichiarazione del produttore che attesti che il consumo tipico di energia elettrica (Etec), calcolato per ogni dispositivo offerto, non superi il TEC massimo necessario (Etec-max) in linea con quanto descritto nell'Allegato III dei criteri GPP UE ?	NO	
	4	Nel caso di server e prodotti di archiviazioni dati, è disponibile la dichiarazione dei produttori/fornitori di conformità alla seguente normativa: ecodesign (Regolamento (EU) 2019/424)?		
	5	Nel caso di computer fissi e display, è presente la marcatura di alloggiamenti e mascherine di plastica secondo gli standard ISO 11469 e ISO 1043?	NO	
	6	Nel caso di fornitura di apparecchiature TIC ricondizionate/rifabbricate, è disponibile una delle certificazioni di sistema di gestione seguente: •ISO 9001 e ISO 14001/regolamento EMAS (certificazione di sistema di gestione disponibile sotto accreditamento –il campo di applicazione della certificazione dovrà riportare lo specifico scopo richiesto); •EN 50614:2020 (qualora l'apparecchiatura sia stata precedentemente scartata come rifiuto RAEE, e preparata per il riutilizzo per lo stesso scopo per cui è stata concepita)?		
	7	E' disponibile una dichiarazione del produttore/fornitore di rispetto della seguente normativa: REACH (Regolamento (CE) n.1907/2006); RoHS (Direttiva 2011/65/EU e ss.m.i.); Compatibilità elettromagnetica (Direttiva 2014/30/UE e ss.m.i.)?	Sì	
	8	Sono state indicate le limitazioni delle caratteristiche di pericolo dei materiali che si prevede utilizzare (Art. 57, Regolamento CE 1907/2006, REACH)?	NO	
	Alle apparecchiature per stampa, copia, multifunzione e servizi di Print&Copy si applica un requisito trasversale			
	9	E' verificata la conformità alle specifiche tecniche e clausole contrattuali dei Criteri ambientali minimi "Affidamento del servizio di stampa gestita, affidamento del servizio di noleggio di stampanti e di apparecchiature multifunzione per ufficio e acquisto o il leasing di stampanti e di apparecchiature multifunzione per ufficio, approvato con DM 17 ottobre 2019, in G.U. n. 261 del 7 novembre 2019" ?		

TV Scheda 3 - Acquisto, Leasing e Noleggio di computer e apparecchiature elettriche ed elettroniche

Verifiche e controlli da condurre per garantire il principio DNSH

Tempo di svolgimento delle verifiche	n.	Elemento di controllo	Esito (Sì/No/Non applicabile)	Commento (obbigatorio in caso di N/A)
Ex-ante	1	E' disponibile l'iscrizione alla piattaforma RAEE in qualità di produttore e/o distributore e/o fornitore?	Sì	
	2	I prodotti elettronici acquistati sono dotati di un'etichetta ambientale di tipo I, secondo la UNI EN ISO 14024, ad esempio TCO Certified, EPEAT 2018, Blue Angel, TÜV Green Product Mark o di etichetta equivalente)	Sì	*EPEAT 2018*
	In caso di assenza di un etichetta ambientale di tipo I dovranno essere verificati i requisiti seguenti al posto del punto 2			
	3	L'AEE è dotata di Etichetta EPA ENERGY STAR?		
	In alternativa al punto 3, rispondere al punto 3.1			
	3.1	E' disponibile una dichiarazione del produttore che attesti che il consumo tipico di energia elettrica (Etec), calcolato per ogni dispositivo offerto, non superi il TEC massimo necessario (Etec-max) in linea con quanto descritto nell'Allegato III dei criteri GPP UE ?		
	4	Nel caso di server e prodotti di archiviazioni dati, è disponibile la dichiarazione dei produttori/fornitori di conformità alla seguente normativa: ecodesign (Regolamento (EU) 2019/424)?		
	5	Nel caso di computer fissi e display, è presente la marcatura di alloggiamenti e mascherine di plastica secondo gli standard ISO 11469 e ISO 1043?		
	6	Nel caso di fornitura di apparecchiature TIC ricondizionate/rifabbricate, è disponibile una delle certificazioni di sistema di gestione seguente: •ISO 9001 e ISO 14001/regolamento EMAS (certificazione di sistema di gestione disponibile sotto accreditamento –il campo di applicazione della certificazione dovrà riportare lo specifico scopo richiesto); •EN 50614:2020 (qualora l'apparecchiatura sia stata precedentemente scartata come rifiuto RAEE, e preparata per il riutilizzo per lo stesso scopo per cui è stata concepita)?		
	7	E' disponibile una dichiarazione del produttore/fornitore di rispetto della seguente normativa: REACH (Regolamento (CE) n.1907/2006); RoHS (Direttiva 2011/65/EU e ss.m.i.); Compatibilità elettromagnetica (Direttiva 2014/30/UE e ss.m.i.)?		
	8	Sono state indicate le limitazioni delle caratteristiche di pericolo dei materiali che si prevede utilizzare (Art. 57, Regolamento CE 1907/2006, REACH)?		
	Alle apparecchiature per stampa, copia, multifunzione e servizi di Print&Copy si applica un requisito trasversale			
	9	E' verificata la conformità alle specifiche tecniche e clausole contrattuali dei Criteri ambientali minimi "Affidamento del servizio di stampa gestita, affidamento del servizio di noleggio di stampanti e di apparecchiature multifunzione per ufficio e acquisto o il leasing di stampanti e di apparecchiature multifunzione per ufficio, approvato con DM 17 ottobre 2019, in G.U. n. 261 del 7 novembre 2019" ?		

Notebook Fujitsu Scheda 3 - Acquisto, Leasing e Noleggio di computer e apparecchiature elettriche ed elettroniche

Verifiche e controlli da condurre per garantire il principio DNSH

Tempo di svolgimento delle verifiche	n.	Elemento di controllo	Esito (Sì/No/Non applicabile)	Commento (obbigatorio in caso di N/A)
Ex-ante	1	E' disponibile l'iscrizione alla piattaforma RAEE in qualità di produttore e/o distributore e/o fornitore?	Sì	
	2	I prodotti elettronici acquistati sono dotati di un'etichetta ambientale di tipo I, secondo la UNI EN ISO 14024, ad esempio TCO Certified, EPEAT 2018, Blue Angel, TÜV Green Product Mark o di etichetta equivalente)	no	
	In caso di assenza di un etichetta ambientale di tipo I dovranno essere verificati i requisiti seguenti al posto del punto 2			
	3	L'AEE è dotata di Etichetta EPA ENERGY STAR?	si	
	In alternativa al punto 3, rispondere al punto 3.1			
	3.1	E' disponibile una dichiarazione del produttore che attesti che il consumo tipico di energia elettrica (Etec), calcolato per ogni dispositivo offerto, non superi il TEC massimo necessario (Etec-max) in linea con quanto descritto nell'Allegato III dei criteri GPP UE ?		
	4	Nel caso di server e prodotti di archiviazioni dati, è disponibile la dichiarazione dei produttori/fornitori di conformità alla seguente normativa: ecodesign (Regolamento (EU) 2019/424)?	Non applicabile	
	5	Nel caso di computer fissi e display, è presente la marcatura di alloggiamenti e mascherine di plastica secondo gli standard ISO 11469 e ISO 1043?	Sì	
	6	Nel caso di fornitura di apparecchiature TIC ricondizionate/rifabbricate, è disponibile una delle certificazioni di sistema di gestione seguente: •ISO 9001 e ISO 14001/regolamento EMAS (certificazione di sistema di gestione disponibile sotto accreditamento –il campo di applicazione della certificazione dovrà riportare lo specifico scopo richiesto); •EN 50614:2020 (qualora l'apparecchiatura sia stata precedentemente scartata come rifiuto RAEE, e preparata per il riutilizzo per lo stesso scopo per cui è stata concepita)?	Non applicabile	
	7	E' disponibile una dichiarazione del produttore/fornitore di rispetto della seguente normativa: REACH (Regolamento (CE) n.1907/2006); RoHS (Direttiva 2011/65/EU e ss.m.i.); Compatibilità elettromagnetica (Direttiva 2014/30/UE e ss.m.i.)?	Sì	
	8	Sono state indicate le limitazioni delle caratteristiche di pericolo dei materiali che si prevede utilizzare (Art. 57, Regolamento CE 1907/2006, REACH)?	Sì	
	Alle apparecchiature per stampa, copia, multifunzione e servizi di Print&Copy si applica un requisito trasversale			
	9	E' verificata la conformità alle specifiche tecniche e clausole contrattuali dei Criteri ambientali minimi "Affidamento del servizio di stampa gestita, affidamento del servizio di noleggio di stampanti e di apparecchiature multifunzione per ufficio e acquisto o il leasing di stampanti e di apparecchiature multifunzione per ufficio, approvato con DM 17 ottobre 2019, in G.U. n. 261 del 7 novembre 2019" ?	Non applicabile	

Notebook Dell Scheda 3 - Acquisto, Leasing e Noleggio di computer e apparecchiature elettriche ed elettroniche

Verifiche e controlli da condurre per garantire il principio DNSH

Tempo di svolgimento delle verifiche	n.	Elemento di controllo	Esito (Sì/No/Non applicabile)	Commento (obbigatorio in caso di N/A)
Ex-ante	1	E' disponibile l'iscrizione alla piattaforma RAEE in qualità di produttore e/o distributore e/o fornitore?	Sì	
	2	I prodotti elettronici acquistati sono dotati di un'etichetta ambientale di tipo I, secondo la UNI EN ISO 14024, ad esempio TCO Certified, EPEAT 2018, Blue Angel, TÜV Green Product Mark o di etichetta equivalente)	Sì	*EPEAT 2018 GOLD*
	In caso di assenza di un etichetta ambientale di tipo I dovranno essere verificati i requisiti seguenti al posto del punto 2			
	3	L'AEE è dotata di Etichetta EPA ENERGY STAR?		
	In alternativa al punto 3, rispondere al punto 3.1			
	3.1	E' disponibile una dichiarazione del produttore che attesti che il consumo tipico di energia elettrica (Etec), calcolato per ogni dispositivo offerto, non superi il TEC massimo necessario (Etec-max) in linea con quanto descritto nell'Allegato III dei criteri GPP UE ?		
	4	Nel caso di server e prodotti di archiviazioni dati, è disponibile la dichiarazione dei produttori/fornitori di conformità alla seguente normativa: ecodesign (Regolamento (EU) 2019/424)?		
	5	Nel caso di computer fissi e display, è presente la marcatura di alloggiamenti e mascherine di plastica secondo gli standard ISO 11469 e ISO 1043?		
	6	Nel caso di fornitura di apparecchiature TIC ricondizionate/rifabbricate, è disponibile una delle certificazioni di sistema di gestione seguente: •ISO 9001 e ISO 14001/regolamento EMAS (certificazione di sistema di gestione disponibile sotto accreditamento –il campo di applicazione della certificazione dovrà riportare lo specifico scopo richiesto); •EN 50614:2020 (qualora l'apparecchiatura sia stata precedentemente scartata come rifiuto RAEE, e preparata per il riutilizzo per lo stesso scopo per cui è stata concepita)?		
	7	E' disponibile una dichiarazione del produttore/fornitore di rispetto della seguente normativa: REACH (Regolamento (CE) n.1907/2006); RoHS (Direttiva 2011/65/EU e ss.m.i.); Compatibilità elettromagnetica (Direttiva 2014/30/UE e ss.m.i.)?		
	8	Sono state indicate le limitazioni delle caratteristiche di pericolo dei materiali che si prevede utilizzare (Art. 57, Regolamento CE 1907/2006, REACH)?		
	Alle apparecchiature per stampa, copia, multifunzione e servizi di Print&Copy si applica un requisito trasversale			
	9	E' verificata la conformità alle specifiche tecniche e clausole contrattuali dei Criteri ambientali minimi "Affidamento del servizio di stampa gestita, affidamento del servizio di noleggio di stampanti e di apparecchiature multifunzione per ufficio e acquisto o il leasing di stampanti e di apparecchiature multifunzione per ufficio, approvato con DM 17 ottobre 2019, in G.U. n. 261 del 7 novembre 2019" ?		

Tavoli Wacebo Scheda 3 - Acquisto, Leasing e Noleggio di computer e apparecchiature elettriche ed elettroniche

Verifiche e controlli da condurre per garantire il principio DNSH

Tempo di svolgimento delle verifiche	n.	Elemento di controllo	Esito (Sì/No/Non applicabile)	Commento (obbigatorio in caso di N/A)
Ex-ante	1	E' disponibile l'iscrizione alla piattaforma RAEE in qualità di produttore e/o distributore e/o fornitore?	Sì	
	2	I prodotti elettronici acquistati sono dotati di un'etichetta ambientale di tipo I, secondo la UNI EN ISO 14024, ad esempio TCO Certified, EPEAT 2018, Blue Angel, TÜV Green Product Mark o di etichetta equivalente)	No	
	In caso di assenza di un etichetta ambientale di tipo I dovranno essere verificati i requisiti seguenti al posto del punto 2			
	3	L'AEE è dotata di Etichetta EPA ENERGY STAR?	si	
	In alternativa al punto 3, rispondere al punto 3.1			
	3.1	E' disponibile una dichiarazione del produttore che attesti che il consumo tipico di energia elettrica (Etec), calcolato per ogni dispositivo offerto, non superi il TEC massimo necessario (Etec-max) in linea con quanto descritto nell'Allegato III dei criteri GPP UE ?	no	
	4	Nel caso di server e prodotti di archiviazioni dati, è disponibile la dichiarazione dei produttori/fornitori di conformità alla seguente normativa: ecodesign (Regolamento (EU) 2019/424)?		
	5	Nel caso di computer fissi e display, è presente la marcatura di alloggiamenti e mascherine di plastica secondo gli standard ISO 11469 e ISO 1043?	no	
	6	Nel caso di fornitura di apparecchiature TIC ricondizionate/rifabbricate, è disponibile una delle certificazioni di sistema di gestione seguente: •ISO 9001 e ISO 14001/regolamento EMAS (certificazione di sistema di gestione disponibile sotto accreditamento –il campo di applicazione della certificazione dovrà riportare lo specifico scopo richiesto); •EN 50614:2020 (qualora l'apparecchiatura sia stata precedentemente scartata come rifiuto RAEE, e preparata per il riutilizzo per lo stesso scopo per cui è stata concepita)?		
	7	E' disponibile una dichiarazione del produttore/fornitore di rispetto della seguente normativa: REACH (Regolamento (CE) n.1907/2006); RoHS (Direttiva 2011/65/EU e ss.m.i.); Compatibilità elettromagnetica (Direttiva 2014/30/UE e ss.m.i.)?	Sì	
	8	Sono state indicate le limitazioni delle caratteristiche di pericolo dei materiali che si prevede utilizzare (Art. 57, Regolamento CE 1907/2006, REACH)?		
	Alle apparecchiature per stampa, copia, multifunzione e servizi di Print&Copy si applica un requisito trasversale			
	9	E' verificata la conformità alle specifiche tecniche e clausole contrattuali dei Criteri ambientali minimi "Affidamento del servizio di stampa gestita, affidamento del servizio di noleggio di stampanti e di apparecchiature multifunzione per ufficio e acquisto o il leasing di stampanti e di apparecchiature multifunzione per ufficio, approvato con DM 17 ottobre 2019, in G.U. n. 261 del 7 novembre 2019" ?		

Product Environmental Report

iPad (10th generation)

Date introduced
October 18, 2022

Progress toward our 2030 goal

26% recycled or renewable content[1]

Over 25% of manufacturing electricity sourced from supplier clean energy projects[2]

Smarter chemistry[3]

- Arsenic-free display glass
- Mercury-free
- Brominated flame retardant–free
- PVC-free
- Beryllium-free

Longevity

iPad features a durable unibody construction and has undergone rigorous testing for durability.

Responsible packaging

100% recycled or responsibly sourced wood fibers

97% fiber-based, due to our work to eliminate plastic in packaging

Recovery

Return your device through Apple Trade In, and we'll give it a new life or recycle it for free.

Responsible manufacturing

Apple Supplier Code of Conduct sets strict standards for the protection of people in our supply chain and the planet.

Now with recycled gold and copper—a first for iPad

This report includes data current as of product launch. Product evaluations are based on U.S. configuration of iPad (10th generation). Product carbon footprint calculations include in-box accessories as well as packaging.

ENERGY STAR

epeat GOLD [4]

Our product carbon neutrality strategy

Our goal is for Apple and all the products we make to be carbon neutral by 2030, reducing our total carbon emissions to no more than 9.6 million metric tons—at least a 75 percent reduction against our 2015 baseline. The only way to reach this ambitious goal is to substantially decarbonize our products.

Our plan to decarbonize products is rigorous and focuses on transitioning to clean electricity, designing with recycled and low-carbon materials, and prioritizing lower-carbon ways of shipping products, like with ocean freight. Only after we've substantially reduced emissions will we apply credits from high-quality carbon removal projects to achieve carbon neutrality.

How we're reducing emissions

- **Transition to 100 percent clean electricity for manufacturing:** To eliminate emissions from the electricity used to make products, we're prioritizing manufacturing energy efficiency and helping to transition our entire supply chain to 100 percent clean electricity.[5]
- **Transition to 100 percent clean electricity for product use:** To gradually negate emissions from the electricity our customers use to charge their Apple products, we're prioritizing product energy efficiency and investing in clean energy projects around the world.
- **Prioritize non-air transportation:** To reduce emissions from transporting products, we're prioritizing the use of lower-carbon shipping modes than air, like ocean or rail.
- **Use recycled and low-carbon materials:** To address emissions generated by using primary materials, we're increasing the recycled content of our products, maximizing material and manufacturing efficiencies, and improving yields. And where we've not yet fully transitioned to recycled content, we're prioritizing low-carbon materials, such as aluminum smelted with hydroelectricity.

How we'll get to net zero emissions

For emissions that remain after reductions, we and our suppliers are supporting nature-based carbon solutions that result in high-quality carbon credits. These play an important role in addressing our climate crisis, as nature-based solutions contribute to the health of ecosystems in addition to removing carbon from the atmosphere. We are aligned with the scientific consensus that these solutions should only be deployed alongside aggressive emissions reductions.

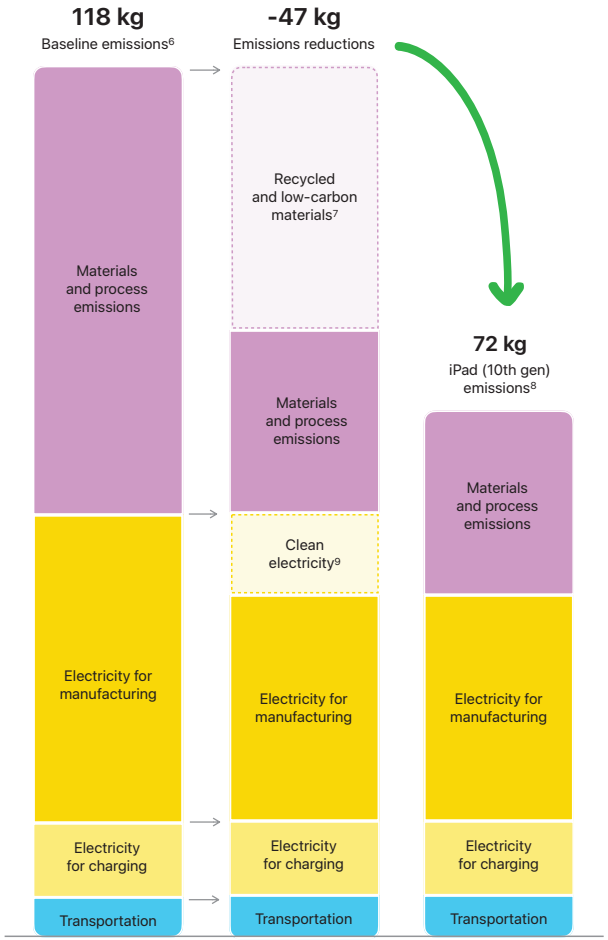
How we're monitoring progress

We first calculate the final carbon footprint of the product using a life cycle carbon analysis approach, in accordance with international standards. To help ensure our work is translating to real reductions, we consider what emissions would have been without our actions. We apply the following assumptions to create this baseline scenario:

- No use of clean electricity for manufacturing or product use, beyond what is already available on the grid (based on regional emissions factors).
- Apple's carbon intensity of key materials as of 2015. Carbon intensity of materials reflects use of recycled content and production technology.
- Apple's average mix of transportation modes (air, rail, ocean, trucking) by product line across three years (fiscal years 2017 to 2019) to best capture the baseline transportation emissions of our products.

Progress toward carbon neutral

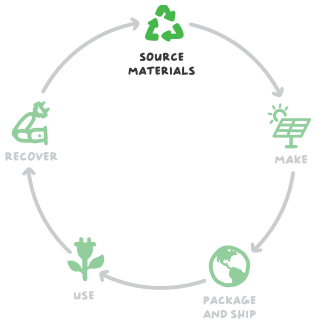
We've reduced emissions for iPad (10th generation) by 40 percent against our baseline. iPad (10th generation) contains 26 percent recycled content, including a 100 percent recycled aluminum enclosure, which reduced emissions from materials by over 30 percent. We're also working with our suppliers to transition to 100 percent clean electricity for Apple production. The clean electricity solutions that suppliers have already implemented to date have reduced iPad (10th generation) emissions by about 9 percent.



Taking responsibility for our products at every stage

We take responsibility for our products throughout their life cycles—including the materials they are made of, the people who assemble them, and how they are recycled at end of life. And we focus on the areas where we can make the biggest difference for our planet: reducing our impact on climate change, conserving important resources, and using safer materials.

We sell millions of products. So making even small adjustments can have a meaningful impact.



Source Materials

iPad (10th generation) contains 26 percent recycled or renewable content.[1]

To conserve important resources, we work to reduce the material we use and aim to one day source only recycled or renewable materials in our products. And as we make this transition, we remain committed to the responsible sourcing of primary materials. We map many materials, some to the mineral source, and establish the strictest standards for smelters and refiners. Apple also requires 100 percent of identified tin, tantalum, tungsten, gold, cobalt, and lithium smelters and refiners to participate in third-party audits.[10] We're proud to be recognized as a worldwide leader in the responsible sourcing of minerals in our products. Our product designs also consider the safety of those who make, use, and recycle our products, restricting the use of hundreds of harmful substances. Our standards go beyond what's required by law to protect people and the environment.

Aluminum

The enclosure of iPad (10th generation) is made of 100 percent recycled aluminum.

Copper

We're now using 100 percent recycled copper in the foil of the main logic board. This use of recycled copper foil is a first for Apple.

Tin

We use 100 percent recycled tin in the solder of multiple printed circuit boards. Apple also requires 100 percent of identified tin, tantalum, tungsten, gold, and cobalt smelters and refiners to participate in third-party audits.[10]

Rare earth elements

We use 100 percent recycled rare earth elements in all magnets, representing 100 percent of the rare earth elements in iPad (10th generation).[11]

Plastic

We're transitioning from fossil fuel–based plastics to those made from renewable or recycled sources. For iPad (10th generation), 13 components are made of 35 percent or more recycled plastic. The antenna lines also use upcycled plastic from bottles that have been chemically transformed into a stronger, higher-performance material.

Gold

Apple is pioneering industry-leading levels of traceability in recycled materials to build a gold supply chain of exclusively recycled content. We're now using 100 percent recycled gold in the plating of multiple printed circuit boards.

Smarter chemistry

iPad is free of harmful substances like beryllium, brominated flame retardants, PVC, phthalates, arsenic in the display glass, and mercury.[3] And 100 percent of the materials in iPad are covered by our Regulated Substances Specification. We go beyond what's required by aiming to understand the non-regulated substances in every part of every product—an effort that requires an industry-leading level of transparency through the entire supply chain. We consistently identify the makeup of over 75 percent by mass of iPad devices.

Make

The Apple Supplier Code of Conduct sets strict standards for the protection of people in our supply chain and the planet that we all share. Every year, we assess our suppliers' performance in upholding the standards required by our Code.

We work closely with our suppliers to provide safe and healthy workplaces where people are treated with dignity and respect, and to reduce suppliers' environmental impact. Our requirements apply across our supply chain, and include the responsible sourcing of materials. From the strong foundation set by our Code, we go further—from helping suppliers transition to clean electricity, to providing educational opportunities for their employees, to supporting final assembly suppliers in reducing waste. For more information, see apple.com/supplier-responsibility.

Greener chemicals

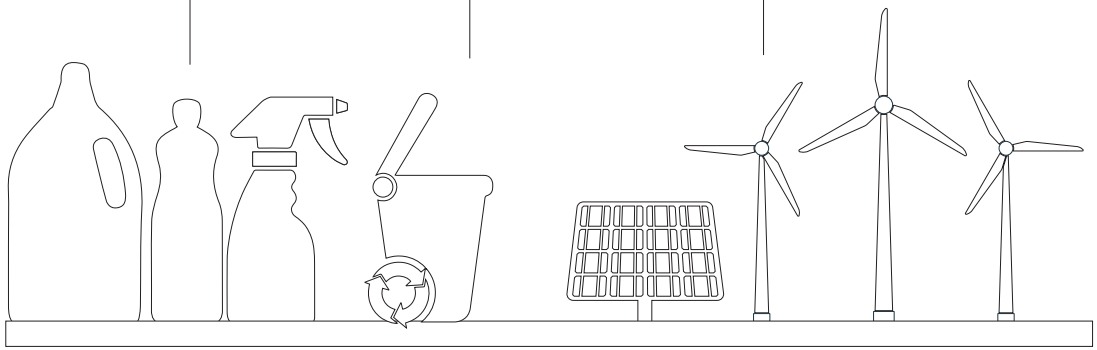
All established iPad final assembly supplier sites use safer cleaners and degreasers in their manufacturing processes, as determined by methodologies like the GreenScreen® assessment.[12]

Zero Waste to Landfill

All established iPad final assembly supplier sites do not generate any waste sent to landfill.[13]

Supplier energy use

Over 25 percent of iPad manufacturing electricity is sourced from supplier clean energy projects, supported by Apple's Supplier Clean Energy Program.[2]



Package and Ship

The iPad packaging is made with 100 percent recycled and responsibly sourced wood fiber.

To improve our packaging, we are working to eliminate plastics, increase recycled content, and use less packaging overall. All of the wood fiber in our packaging is either recycled or comes from responsibly managed forests.[14] And we have protected or created enough responsibly managed forests to cover all the virgin wood fiber we use in our packaging.[15] This ensures working forests are able to regrow and continue to clean our air and purify our water.

As we transport our products from our manufacturers to our consumers, we're prioritizing less carbon-intensive shipping modes than air transport, such as rail and ocean.

97%

of the packaging[16] is fiber-based, due to our work to eliminate plastic in packaging

56%

recycled content in fiber packaging

100%

of the virgin wood fiber in the packaging comes from responsibly managed forests[14]

Use

iPad uses 66 percent less energy than the requirement for ENERGY STAR.

We design our products to be energy efficient, long-lasting, and safe. iPad uses software and power-efficient components that intelligently manage power consumption. We also run our own Reliability and Environmental Testing Labs, where our products go through rigorous testing before they leave our doors. Our support continues throughout each product's life cycle, with regular software updates to keep devices current and a network of authorized repair professionals to service them, if necessary. To address emissions tied to the electricity our products use, we are building clean energy projects and engaging with our customers to educate and provide opportunities to support the decarbonization of the grid.

Energy consumption of ENERGY STAR–rated products

Apple devices consistently rank among the high-performing products rated by ENERGY STAR, which sets specifications that typically reflect the 25 percent most energy-efficient devices on the market. iPad consumes 66 percent less energy than the requirement for ENERGY STAR.[17]

Designed to last

iPad features a durable unibody construction and has undergone rigorous testing for durability.

Made with smarter chemistry

We apply rigorous controls for materials users touch—all based on recommendations from toxicologists and dermatologists.

Recover

Return your product with Apple Trade In, and we'll ensure it has a long life or recycle it for free.

When products are used longer, fewer resources are extracted from the earth. And we want the materials in our products to live on in other products. That's why we launched Apple Trade In—it offers customers a seamless way to return their old devices and accessories to Apple. Eligible devices can be traded in for credit or an Apple Store Gift Card, while accessories and other devices can be recycled for free.[18] We also offer and participate in product take-back and recycling collection programs for 99 percent of the countries where we sell products—and we hold our recyclers to high standards. Our efforts to keep harmful substances out of our products mean our materials are safer to recover and reuse.

We're also creating Apple Recycler Guides to provide guidance for professional electronics recyclers on how to safely disassemble Apple products to maximize recovery of resources. The guides provide valuable insight into the steps for recycling, as well as the recommended downstream material recycler for the disassembled parts.

Apple Trade In

For more information on how to recycle your products at end of life, visit:

apple.com/trade-in

Definitions

Bio-based plastics: Bio-based plastics are made from biological sources rather than from fossil-fuel sources. Bio-based plastics allow us to reduce reliance on fossil fuels.

Carbon footprint: Estimated emissions are calculated in accordance with guidelines and requirements as specified by ISO 14040 and ISO 14044. There is inherent uncertainty in modeling carbon emissions due primarily to data limitations. For the top component contributors to Apple's carbon emissions, Apple addresses this uncertainty by developing detailed process-based environmental models with Apple-specific parameters. For the remaining elements of Apple's carbon footprint, we rely on industry average data and assumptions. Calculation includes emissions for the following life cycle phases contributing to Global Warming Potential (GWP 100 years) in CO_2 equivalency factors (CO_2e):

- **Production:** Includes the extraction, production, and transportation of raw materials, as well as the manufacture, transport, and assembly of all parts and product packaging.
- **Transport:** Includes ground, air, and sea transportation of the finished product and its associated packaging from manufacturing site to regional distribution hubs. Transport of products from distribution hubs to end customers is modeled using average distances based on regional geography.
- **Use:** Apple assumes a three- or four-year period for power use by first owners based on the product type. Product use scenarios are based on historical customer use data for similar products. Energy use is simulated in various ways; for example, by modeling daily battery drain or through performing activities like movie and music playback. Geographic differences in the power grid mix have been accounted for at a regional level.
- **End-of-life processing:** Includes transportation from collection hubs to recycling centers and the energy used in mechanical separation and shredding of parts.

  For more information on our product carbon footprint methodology, visit apple.com/environment/answers.

Low-carbon materials: Refers to materials created using production techniques with reduced carbon impact, such as Elysis (a patented technology that eliminates direct greenhouse gas emissions from the traditional aluminum smelting process) or aluminum smelted using hydroelectricity instead of coal.

Recycled materials: Recycling makes better use of finite resources by sourcing from recovered rather than mined materials. Recycled content claims for materials used in our products have been verified by an independent third party to a recycled content standard that conforms to ISO 14021.

Renewable materials: We define bio-materials as those that can be regenerated in a human lifespan, like paper fibers or sugarcane. Bio-materials can help us use fewer finite resources. Buteven though bio-materials have the ability to regrow, they are not always managed responsibly. Renewable materials are a type of bio-material managed in a way that enables continuous production without depleting the earth's resources. That's why we focus on sources that are certified for their management practices.

Supplier Clean Energy Program: Since the electricity used to make our products is the largest contributor to our overall carbon footprint, we're helping our suppliers decarbonize their Apple production, including by transitioning electricity use to 100 percent clean sources.

Carbon Footprint

Greenhouse gas emissions were calculated using a life cycle assessment methodology in accordance with ISO 14040 and 14044 standards and based on iPad (10th generation) Wi-Fi + Cellular with 64GB storage configuration. The life cycle assessment boundary for this product includes the physical product and all of its components, as well as all in-box accessories and packaging.

Greenhouse gas emissions	**iPad (10th generation)** Wi-Fi + Cellular with 64GB storage configuration
Total product footprint	**72 kg CO_2e**
Apple emissions from utility-purchased electricity (scope 2)	0 kg CO_2e
Life cycle product emissions (scope 3)	72 kg CO_2e
• Production	78%
• Transportation	8%
• Product use	14%
• End of life processing	<1%
GHG reductions achieved[6]	↓40%

Note: Percentages may not total 100 due to rounding.

We've also calculated the product carbon footprint for different configurations:

Configuration	**iPad (10th generation) Wi-Fi + Cellular**
64GB	72 kg CO_2e
256GB	82 kg CO_2e

Endnotes

[1] Product recycled or renewable content is the mass of certified recycled material relative to the overall mass of the device, not including packaging or in-box accessories

[2] We estimate the percentage of electricity-related emissions in our manufacturing that is sourced from clean electricity by attributing to our carbon model clean energy procured by our suppliers in the prior fiscal year, based on the supplier manufacturing allocations at time of product launch. Included in this number is only clean electricity that Apple or its suppliers have procured as part of Apple's Supplier Clean Energy Program.

[3] Apple defines its restrictions on harmful substances, including definitions for what Apple considers to be "free of," in the Apple Regulated Substances Specification. Every Apple product is free of PVC and phthalates with the exception of AC power cords in India, Thailand (for 2-prong AC power cords), and South Korea, where we continue to seek government approval for our PVC and phthalates replacement. Apple products comply with the European Union Directive 2011/65/EU and its amendments, including exemptions for the use of lead such as high-temperature solder. Apple is working to phase out the use of these exempted substances where technically possible.

[4] iPad (10th generation) achieved a Gold rating in the United States and Canada, in accordance with IEEE 1680.1 or UL 110, and is listed as such on the Electronic Product Environmental Assessment Tool (EPEAT) Registry. EPEAT registers computers, displays, and mobile phones based on environmental requirements in these standards. For more information, visit www.epeat.net.

[5] We recognize that even clean sources of electricity have residual carbon emissions across their life cycle (e.g., from manufacturing), which we account for when calculating our product scope 3 emissions.

[6] Carbon reductions are calculated against a baseline scenario: 1) No use of clean electricity for manufacturing or product use, beyond what is already available on the grid (based on regional emissions factors). 2) Apple's carbon intensity of key materials as of 2015 (our baseline year for our 2030 product carbon neutrality goal). Carbon intensity of materials reflects use of recycled content and production technology. 3) Apple's average mix of transportation modes (air, rail, ocean, trucking) by product line across three years (fiscal years 2017 to 2019) to best capture the baseline transportation emissions of our products.

[7] We calculate emissions savings from the use of recycled or low-carbon materials in our products by comparing the carbon intensity of key materials today with their 2015 baseline for Apple products. We currently only quantify the carbon savings from the use of recycled aluminum, which means the actual emissions avoided are likely larger. We plan to improve our accounting of recycled content over time.

[8] Greenhouse gas emissions were calculated using a life cycle assessment methodology in accordance with ISO 14040 and 14044 standards and based on iPad (10th generation) Wi-Fi + Cellular with 64GB storage configuration. The life cycle assessment boundary for this product includes the physical product and all of its components, as well as all in-box accessories.

[9] We estimate emissions savings from supplier clean electricity by allocating to our carbon model clean electricity generated by our suppliers in the prior fiscal year, based on the supplier manufacturing allocations at time of product launch.

[10] Third-party assessments seek to confirm sourcing practices and are part of our responsible sourcing program. In addition, our efforts consider a broad range of risks, including social, environmental, human rights, and governance risks.

[11] Excludes trace amount of rare earth elements found outside of the magnets and accounting for less than 0.5 percent of the total found in the device.

[12] Chemicals that meet GreenScreen® benchmark 3 or 4 or other equivalent methodologies like U.S. EPA Safer Choice are considered safer and preferred for use. GreenScreen® is a comprehensive hazard assessment tool that evaluates substances against 18 different criteria. For more information, visit www.greenscreenchemicals.org.

[13] All established final assembly supplier sites—or those that have been Apple suppliers for more than one year—for iPad (10th generation) are third-party certified as Zero Waste by UL LLC (UL 2799 Standard). UL requires at least 90 percent diversion through methods other than waste to energy to achieve Zero Waste to Landfill (Silver 90–94 percent, Gold 95–99 percent, and Platinum 100 percent) designations.

[14] Responsible sourcing of wood fiber is defined in Apple's Sustainable Fiber Specification. We consider wood fibers to include bamboo.

[15] For more information about our work to protect and create responsibly managed forests, please read our Environmental Progress Report.

[16] Breakdown of U.S. retail packaging by weight. Adhesives, inks, and coatings are excluded from our calculations of plastic content and packaging weight.

Endnotes

[17] Energy consumption and energy efficiency values are based on the ENERGY STAR Program Requirements for Computers, including the max energy allowance for iPad (10th generation). For more information, visit www.energystar.gov. ENERGY STAR and the ENERGY STAR mark are registered trademarks owned by the U.S. Environmental Protection Agency.

iPad (10th generation) is tested with a fully charged battery and powered by the Apple 20W USB-C Power Adapter with the USB-C to Lightning Cable (1m).

- Sleep: Low power state that is entered automatically after 2 minutes of inactivity (default), or by pressing the Sleep/Wake button. Connected to Wi-Fi. All other settings were left in their default state.
- Idle—Display on: Display brightness was set as defined by ENERGY STAR Program Requirements for Computers, and Auto-Brightness was turned off. Connected to Wi-Fi. All other settings were left in their default state.
- Power adapter, no-load: Condition in which the Apple 20W USB-C Power Adapter with the USB-C to Lightning Cable (1m) is connected to AC power, but not connected to the system.
- Power adapter efficiency: Average of the Apple 20W USB-C Power Adapter with the USB-C to Lightning Cable (1m) measured efficiency when tested at 100 percent, 75 percent, 50 percent, and 25 percent of the power adapter's rated output current.

	Power consumption for iPad (10th generation)		
Mode	**100V**	**115V**	**230V**
Sleep	0.25W	0.36W	0.37W
Idle—Display on	2.94W	2.93W	3.01W
Power adapter, no load	0.04W	0.04W	0.05W
Power adapter efficiency	86.8%	87.9%	87.8%

[18] Trade-in values vary based on the condition, year, and configuration of your trade-in device, and may also vary between online and in-store trade-in. You must be at least 18 years old. In-store trade-in requires presentation of a valid, government-issued photo ID (local law may require saving this information). Additional terms from Apple or Apple's trade-in partners may apply.

Life Cycle Assessment for Display Products

Background

Samsung has developed strong technical experience in assessing the life cycle environmental impacts of its displays. The most recent life cycle assessment (LCA) has been for the Samsung Display. The assessment considers potential environmental impacts across the whole life cycle including; pre-manufacturing; product manufacturing; distribution; product use; and disposal phase.
To ensure technical quality; the analysis methodology has been completed according to international standard ISO 14040 series. Samsung has used Simapro7 software and a dedicated LCA S/W database to measure environmental impacts using a wide range of data categories including; Product bill of material (BOM), parts and components logistics, energy consumption in product use and end-of-life scenario data in order to attain the highest level of accuracy. The outcome of the LCA confirmed and quantified 12 potential environment impact categories including; global warming; abiotic depletion; Water consumption; eutrophication; Primary energy demand and ozone layer depletion; where each impact category has been assessed for each life cycle stage. These LCA results will continue to be considered during product development phase as we aspire to improve the environmental specifications of our products.

Calculation basis

Standard	ISO 14040:2006 and 14044:2006
Database	Ecoinvent 3.8
Method for impact assessment	Life cycle impact assessment classification and characterization factors according to CML 2001 as provided in the SimaPro.
LCA software	SimaPro 9.3

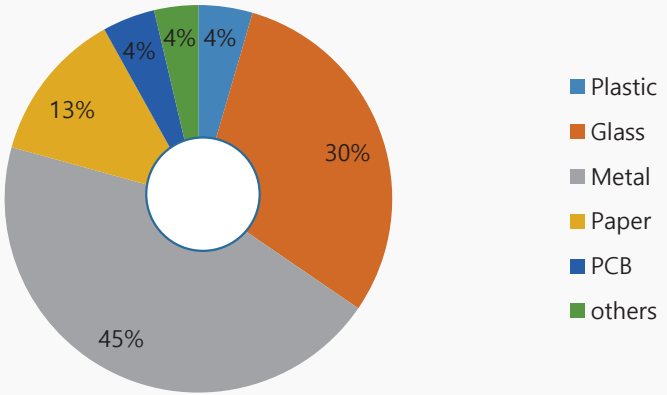
System boundary of LCA

Pre-manufacturing	Parts and materials constituting the products
Manufacturing	Product assembly by Samsung Electronics (Data collection from 3 Plants)
Distribution	From Mexico/Vietnam/China to America, Europe and Asia countries
Usage	4 years use
Disposal	Waste treatment of parts and material

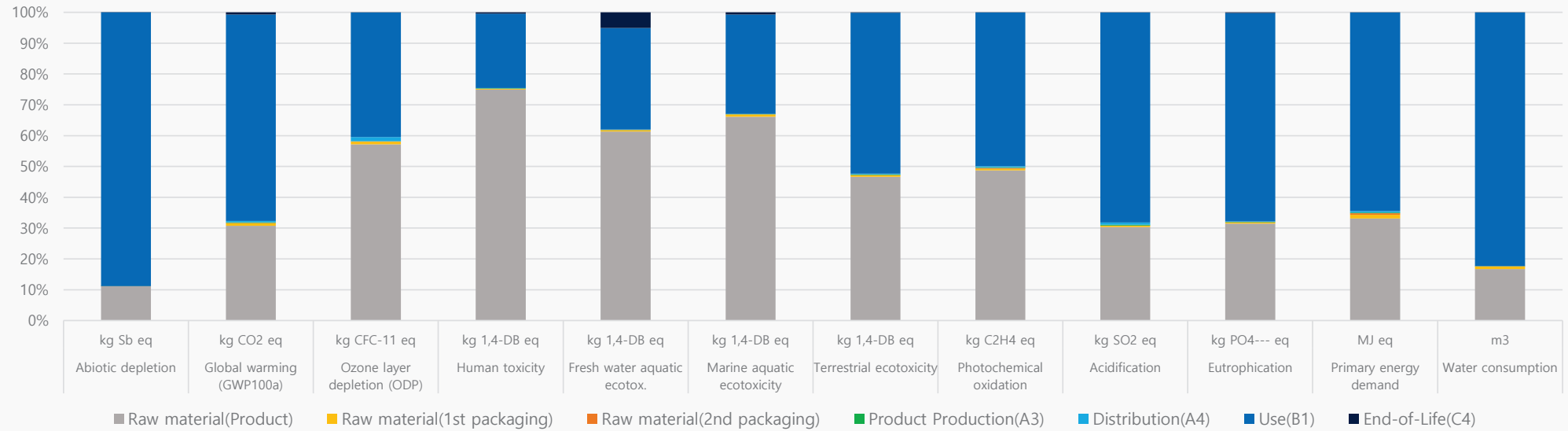
Product Features

Model name	LS27B80*****
Screen Size	27 inch
Resolution	4k UHD (3840*2160)
Brightness	350 nit
Viewing Angle	178/178
Power Supply	AC 100 - 240 V, 50/60 Hz
Wt.(kg)	6.7 (Package 8.4)

Material Use



Characterized Environment Impact



Annex B2 - Product environmental attributes
Computers and computer monitors

The declaration may be published only when all rows and/or fields marked with * are filled-in (n.a. for not applicable). Additional information regarding each item may be found under P15.

Brand *	**FUJITSU**	**Logo**
Company name *	**Fujitsu Limited**	
Contact information * **email-address**	***e-mail: regulatory_affairs@ts.fujitsu.com***	
Internet site *	***https://www.fujitsu.com/emeia/***	
Additional Information		

The company declares (based on product specification or test results based obtained from sample testing), that the product conforms to the statements given in this declaration.	
Type of product *	***Professional Notebook***
Commercial name *	***LIFEBOOK A3511*** **(may be followed by suffixes)**
Model number *	***2A15A2***
Issue date *	**2022-01-28**
Intended market *	☐ **Global** ☒ **Europe** ☐ **Asia, Pacific & Japan** ☐ **Americas** ☐ **Other**
Additional information	

This is an uncontrolled copy when in printed form. Please refer to the contact information for the latest version.

About Annex B2
Annex B2 reflects Product environmental attributes relevant for Computers and Computer Monitors. The following items from the ECMA 370 Main body are not shown in the template:
P4.1 – P4.3 Consumable materials
P9.1 TEC and Print speed
P10.2 - P10.3 Chemical emissions from printing products
P11.1 - P11.3 Consumable materials for printing products.

Model number *	*LIFEBOOK A3511*; model: *2A15A2*	**Logo**	FUJITSU
Issue date *	2022-01-28		

Product environmental attributes - Legal requirements		**Requirement met**		
Item		Yes	No	n.a.
P1	**Hazardous substances and preparations**			
P1.1*	Products do comply with current European RoHS Directive. (See legal reference and NOTE B1)	☒	☐	
P1.2*	Products do not contain Asbestos (see legal reference). Comment: Legal reference has no maximum concentration value.	☒	☐	
P1.3*	Products do not contain Ozone Depleting Substances: Chlorofluorocarbons (CFC), hydrobromofluorocarbons (HBFC), hydrochlorofluorcarbons (HCFC), Halons, carbontetrachloride, 1,1,1-trichloroethane, methyl bromide (see legal reference). Comment: Legal reference has no maximum concentration values.	☒	☐	
P1.4*	Products do not contain more than; 0,005% polychlorinated biphenyl (PCB), 0,005% polychlorinated terphenyl (PCT) in preparations (see legal reference).	☒	☐	
P1.5*	Products do not contain more than 0,1% short chain chloroparaffins (SCCP) with 10-13 carbon atoms in the chain containing at least 48% per mass of chlorine in the SCCP (see legal reference).	☒	☐	
P1.6*	Parts with direct and prolonged skin contact do not release nickel in concentrations above 0,5 μg/cm^2/week (see legal reference). Comment: Max limit in legal reference when tested according to EN1811:2011-5.	☒	☐	☐
P1.7*	REACH Article 33 information about substances in articles is available at (add URL or mail contact): *https://sp.ts.fujitsu.com/dmsp/Publications/public/REACH_SVHC_statement.pdf*	☒	☐	☐
P2	**Batteries**			
P2.1*	If the product contains a battery or an accumulator, the battery/accumulator is labeled with the disposal symbol. Information on proper disposal is provided in user manual. (See legal reference)	☒	☐	☐
P2.2*	Batteries or accumulators do not contain more than 0,0005% of mercury or 0,002% of cadmium. (See legal reference)	☒	☐	☐
P2.3*	Batteries and accumulators are readily removable. (See legal reference)	☒	☐	☐
P2.4*	Documentation includes the number of cycles the (secondary) battery can withstand. (See legal reference)	☐	☐	☒
P2.5*	When internal batteries of a notebook computer cannot be “accessed and replaced by a nonprofessional user”, the related text is present and legible on the external packaging (see legal reference)	☐	☐	☒
P3	**Conformity verification & Eco design (ErP)**			
P3.1*	The product is CE-marked to show conformance with applicable legal requirements (see legal reference). The Declaration of Conformity can be requested at (add link or e-mail address): *https://sp.ts.fujitsu.com/sites/certificates/default.aspx*	☒	☐	☐
P3.2*	The product complies with the Eco design requirements for energy-related products, (see legal reference). Required information is; ☐ given in item P15 or added to this document, ☐ available at (add URL):	☒	☐	☐
P5	**Product packaging**			
P5.1*	Packaging and packaging components do not contain more than 0,01% lead, mercury, cadmium and hexavalent chromium by weight of these together.	☒	☐	
P5.2*	The packaging materials are marked with abbreviations and numbers indicating the nature of the material(s) used (see legal reference).	☒	☐	☐
P5.3*	The product packaging material is free from ozone depleting substances as specified in the Montreal Protocol (see legal reference). Comment: Legal reference has no maximum concentration values.	☒	☐	☐
P6	**Treatment information**			
P6.1*	Information for recyclers/treatment facilities is available (see legal reference).	☒	☐	☐

NOTE B1 Restriction applies to the homogeneous material, unless other specified and expressed in weight %. Stating “Yes” means that the product is compliant with the mandatory requirements.

Model number *	*LIFEBOOK A3511*; model: *2A15A2*	**Logo**	FUJITSU
Issue date *	2022-01-28		

Product environmental attributes - Market requirements (See General NOTE below) **- Environmental conscious design**		**Requirement met**		
Item	*=mandatory to fill in. Additional information regarding each item may be found under P14.	Yes	No	n.a.
P7	**Design** **Disassembly, recycling**			
P7.1*	Parts that have to be treated separately are easily separable	☒	☐	☐
P7.2*	Plastic materials in covers/housing have no surface coating.	☐	☒	☐
P7.3*	Plastic parts > 100 g consist of one material or of easily separable materials.	☒	☐	☐
P7.4*	Plastic parts > 25 g have material codes according to ISO 11469 referring ISO 1043-4.	☒	☐	☐
P7.5	Plastic parts are free from metal inlays or have inlays that can be removed with commonly available tools.	☒	☐	☐
P7.6*	Labels are easily separable. (This requirement does not apply to safety/regulatory labels).	☒	☐	☐
	Product lifetime			
P7.7*	Upgrading can be done e.g. with processor, memory, cards or drives	☒	☐	☐
P7.8*	Upgrading can be done using commonly available tools	☒	☐	☐
P7.9	Spare parts are available after end of production for: years			☐
P7.10	Service is available after end of production for: years			☐
	Material and substance requirements			
P7.11*	Product cover/housing material type (e.g. plastics, metal, aluminum): Material type: plastics Material type: Material type:			
P7.12	Insulation materials of external electrical cables are PVC free.	☐	☒	☐
P7.13	Insulation materials of internal electrical cables are PVC free.	☒	☐	☐
P7.14	External plastic casing/cover parts > 25 g contain no more than 0,1% weight (1000 ppm) bromine and 0,1% weight (1000 ppm) chlorine attributable to brominated flame retardants, chlorinated flame retardants, and polyvinyl chloride or 0,3% weight (3000 ppm) bromine and 0,3% weight (3000 ppm) chlorine in parts containing more than 25% post-consumer recycled content.	☒	☐	☐
P7.15	Printed circuit boards, PCBs (without components) are low halogen: all ☐ PCBs > 25 g ☐ are low halogen as defined in IEC 61249-2-21. (See 1NOTE B2)	☐	☒	☐
P7.16	Flame retarded plastic parts > 25 g in covers / housings are marked according ISO 1043-4: Marking: >FR(40)<	☒	☐	☐
P7.17	Alt. 1: Chemical specifications of flame retardants in printed circuit boards > 25 g (without components): TBBPA (additive) ☐, TBBPA (reactive) ☐ (See NOTE B3), Other; chemical name: , CAS #: Alt. 2: Chemical specifications of flame retardants in printed circuit boards (without components) > 25 g according ISO 1043-4: FR(40)	☐ ☒	☐ ☐	☒ ☐
P7.18	Alt. 1: Flame retarded plastic parts > 25 g contain the following flame retardant substances/preparations in concentrations above 0,1%: 1. Chemical name: , CAS #: (See NOTE B4) 2. Chemical name: , CAS #: " 3. Chemical name: , CAS #: " Alt. 2: Chemical specifications of flame retardants in plastic parts > 25 g according ISO 1043-4:FR(40)	☐ ☒	☐ ☐	☒ ☐
P7.19	In plastic parts > 25 g, flame retardant substances/preparations above 0,1% are used which have bee assigned the following Risk phrases; and Hazard statements: The source(s) for these classifications is/are found at (add URL(s)): , (See note B5)	☐	☐	☐

GENERAL NOTE Standard references should direct to the latest version of a standard. If an older version of a standard is used, section P15 shall be used for explanation.

NOTE B2 IEC 61249-2-21 defines maximum limits of 900 ppm for each of the substances chlorine and bromine and a maximum limit of 1500ppm of these substances combined. The standard does not address fluorine, iodine and astatine which are included in the group of halogens.

NOTE B3 and B4 A Guidance document on Chemical substances is available; see http://www.ecma-international.org/publications/standards/Ecma-370.htm

NOTE B5 If a certain substance has been assigned a certain risk phrases / hazard statement in the referenced source, this does not necessarily mean the substance has been tested for all of the hazards referred to by a certain customer.

Model number *	*LIFEBOOK A3511*; model: *2A15A2*	**Logo**	FUJITSU
Issue date *	2022-01-28		

Product environmental attributes - Market requirements (continued)		**Requirement met** Yes	No	n.a.
Item				
	Material and substance requirements (continued)			
P7.20*	Postconsumer recycled plastic material content is used in the product (See Note B6): If YES, at least one of the two alternatives below shall be answered; a) Of total plastic parts' weight > 25 g, the postconsumer recycled plastic material content (calculated as a percentage of total plastic by weight) is %. or b) The weight of recycled material is g.	☐	☒	☐
P7.21*	Biobased plastic material content is used in the product (See NOTE B7): If YES; at least one of the two alternatives below shall be answered; Of total plastic parts' weight > 25 g, the biobased plastic material content (calculated as a percentage of total plastic by weight) is %. or The weight of the biobased plastic material is g.	☐	☒	☐
P7.22*	Light sources are free from mercury, i.e. less than 0,1 mg/lamp. If mercury is used specify: Number of lamps: and maximum mercury content per lamp: mg	☒	☐	☐
P7.23*	If product includes an integral display, the total mercury content in the integrated display: mg	☐	☐	☒
P8	**Batteries**			
P8.1*	Battery chemical composition: ***Battery Pack - Lithium ion rechargeable battery*** ***Coin Battery - Lithium Manganese Dioxide battery***			☐
P9	**Energy consumption (See NOTE B8)**			
P9.1	For the product the following power levels or energy consumptions are reported:			

Energy mode*	Power level at **100** V AC	Power level at **115** V AC	Power level at **230** V AC	Reference/Standard for energy modes and test method*	
EPS No-load (External power supply / charger plugged in the wall outlet but disconnected from the product.)	W	W	***0.1076*** W	***EU Directive for Energy-related Products ErP 2009/125/EC and Implementing Measure no. EC 278/2009 for External Power Supply***	☐
PTEC * Typical Energy Consumption	W	W	W		☒
ETEC * Annual Energy Consumption	***22.24*** kWh/year	***22.31*** kWh/year	***23.08*** kWh/year	***ENERGY STAR®***	☐
External Power Supply Efficiency Level (International Efficiency Marking Protocol) * : ***VI***					☐
Display resolution * : 2.07 megapixels					☐
Default time to enter energy save mode: 30 minutes					☐

P9.2*	Information about the energy save function is provided with the product.	☒	☐	☐
P9.3	Energy efficiency class (monitors only):			☒

NOTE B6 Applies to a product containing plastic parts whose combined weight exceeds 100 g with the exception of printed circuit boards, cables, connectors and electronic components and bio-based plastic material.

NOTE B7 The following is to be excluded from the calculation of percentage: printed circuit boards, labels, cables, connectors and electronic components and postconsumer recycled plastic

NOTE B8 A Guidance document on Energy Efficiency is available;
see http://www.ecma-international.org/publications/standards/Ecma-370.htm

Model number *	*LIFEBOOK A3511*; model: *2A15A2*	Logo	FUJITSU
Issue date *	2022-01-28		

Product environmental attributes - Market requirements (continued)				Requirement met		
P10	**Emissions**					
Item				Yes	No	n.a.
	Noise emission – Declared according to ISO 9296 (See NOTE B9)					
P10.1	Mode	Mode description	Statistical upper limit A-weighted sound power level, $L_{WA,c}$ (B)			
	Idle	*Idle mode	* 2.9			☐
	Operation	*HDD load	* 3.2			☐
	Other mode					
	Measured according to: ☒ ISO 7779 ☒ ECMA-74 ☐ Other (only if not covered by ECMA-74)					
	Electromagnetic emissions					
P10.4	Computer display meets the requirement for low frequency electromagnetic fields of the following voluntary program(s):			☐	☐	☒
P12	**Ergonomics for computing products**					
P12.1*	The display meets the ergonomic requirements of ISO 9241-307 for visual display technologies.			☐	☒	☐
P12.2*	The physical input device meets the requirements of ISO 9995 and ISO 9241-410.			☐	☒	☐
P13	**Packaging and documentation**					
P13.1*	Product packaging material type(s): Cardboard weight (kg): 0.38 Product packaging material type(s): PE weight (kg): 0.06 Product packaging material type(s): weight (kg):					
P13.2*	Product plastic primary packaging is free from PVC.			☒	☐	☐
P13.3*	For product primary corrugated fiberboard packaging, specify the contained percentage of minimum post-consumer recovered fiber content: *83* %					☐
P13.4*	Specify media for user and product documentation (tick box): Electronic ☒, Paper ☒, Other ☐					☐
P13.5	(Please only complete this item if paper documentation used) User and product documentation on paper media is chlorine-free: If Yes, please specify.			☒	☐	
	Totally chlorine-free			☐		
	Elemental chlorine-free			☒		
	Processed chlorine-free			☐		
P14	**Voluntary programs**					
P14.1	The product meets the requirements of the following voluntary program(s):					
	ENERGY STAR®	Criteria version: 8.0	Date: 10/2021	Product category: Computers		
	Eco-label:	Criteria version:	Date:	Product category:		
	Eco-label:	Criteria version:	Date:	Product category:		
P15	**Additional information (See NOTE B10)**					
P3.2	The product is in line with the European Union Eco design requirements (ErP) which is displayed in the CE declaration. The product is not in scope of ErP directives, which requires a special set of customer information like Commission Regulation (EU) No 617/2013. Therefore no additional information is provided.					
P9	The given values are from maximum ENERGY STAR® configuration. Depending on system configuration these values may be differ than given in The Eco Declaration.					

Energy mode	Power level at **100** V AC	Power level at **115** V AC	Power level at **230** V AC	Reference / Standard for energy modes and test method
Long idle mode	(N/A) W	(N/A) W	(N/A) W	ENERGY STAR®, Category 1/2
Short idle mode	5.604 W	5.592 W	5.712 W	ENERGY STAR®, Category 1/2
Sleep mode	1.764 W	1.764 *W*	1.860 *W*	ENERGY STAR®, Category 1/2
Off mode	0.300 W	0.300 W	0.336 W	ENERGY STAR®, Category 1/2

P10	Depending on system configuration these values may be differ than given in The Eco Declaration. The given values are from "Typical Configuration".
P13	The given information can be differ depending on the system configuration.
P14	System configuration(s) matching voluntary program requirements are avilable.
	Changes to technical data reserved. Any liability that the data and illustrations are complete, actual or correct is excluded.

NOTE B9 A Guidance document on Acoustic Noise is available; see http://www.ecma-international.org/publications/standards/Ecma-370.htm

NOTE B10 Additional lines may be inserted to declare further items, by positioning the cursor at the far right of the row and hitting the <Enter> key.

Legal references Europe Annex B2

Reference	Declaration item
Directive 2011/65/EU (RoHS Directive)* * Specific exemptions apply for certain products and applications.	P1.1, P3.1
Regulation (EC) 1907/2006 (REACH Regulation), annex XVII	P1.2, P1.4, P1.6, P1.7
Regulation (EC) 2037/2000, 2038/2000, 2039/2000 (Marketing and use of Ozone layer depleting substances)	P1.3, P5.3
Norwegian regulation relating to restrictions on the use of certain dangerous chemicals 20.12.2002	P1.5
Directive 2006/66/EC (Battery and accumulators Directive), as amended.* * These provisions shall not apply where, for safety, performance, medical or data integrity reasons, continuity of power supply is necessary and requires a permanent connection between the appliance and the battery or accumulator.	P2.1, P2.2, P2,3, P8.1
Directive 2014/35/EU (Low Voltage Directive)	P3.1
Directive 2014/30/EU (EMC Directive)	P3.1
Directive 2014/53/EU (RE Directive)	P3.1
Regulation (EC) 801/2013 amending Regulation (EC) No 1275/2008 with regard to ecodesign requirements for standby, off mode electric power consumption of electrical and electronic household and office equipment, and amending Regulation (EC) No 642/2009 with regard to ecodesign requirements for televisions	P3.1, P3.2
Commission Regulation (EC) No 278/2009 of 6 April 2009 implementing Directive 2005/32/EC of the European Parliament and of the Council with regard to ecodesign requirements for no-load condition electric power demand and average active efficiency of external power supplies	P3.1, P3.2, P9.1
COMMISSION REGULATION (EU) No 617/2013 of 26 June 2013 implementing Directive 2009/125/EC of the European Parliament and of the Council with regard to ecodesign requirements for computers and computer servers	P2.4, P2.5, P3.1, P3.2, P7.23, P9.1
Regulation（EC）No 1272/2008 (CLP Regulation)	P7.19
Directive 2004/12/EC (Packaging Directive)	P5.1
Decision 97/129/EC (Secondary packaging legislation)	P5.2
Directive 2012/19/EU (WEEE directive) Implementing Regulation (EU) 2019/290 establishing the format for registration and reporting of producers of electrical and electronic equipment to the register. Commission Implementing Regulation 2017/699 establishing a common methodology for the calculation of the weight of electrical and electronic equipment (EEE) placed on the national market in each Member State and a common methodology for the calculation of the quantity of waste electrical and electronic equipment (WEEE) generated by weight in each Member State.	P6.1

ENERGY STAR CERTIFIED

Displays

Promethean - ActivPanel LX : APLX-65

Specifications

ENERGY STAR Unique ID:	2408358
Brand Name:	Promethean
Model Name:	ActivPanel LX
Model Number:	APLX-65
Product Type:	Signage Display
Panel Type:	TFT-LCD
Screen Size (inches):	64.5
Screen Area (square inches):	1778.87
Native Resolution (pixels):	2160 x 3840
Maximum Luminance (candelas per square meter):	350.0
Total Native Resolution (megapixels):	8.3
Model Features:	Variable Refresh Rate,Touch Screen,USB-C,Full Network Connectivity,Built-In Speakers,Plug-in Module (Removable)
Signal or Data Interfaces:	VGA,RS232,RJ45,Other,HDMI,USB
Power Source:	Ac to dc internal power supply
On Mode Power (watts):	111.01
Markets:	United States, Canada
Sleep Mode Power (watts):	0.31
Off Mode Power (watts):	0.01
Tiled Display System:	No
ENERGY STAR Certified:	Yes
ENERGY STAR Most Efficient:	No

Additional Model Information

UPC Codes	

Captured On:
06/05/2023