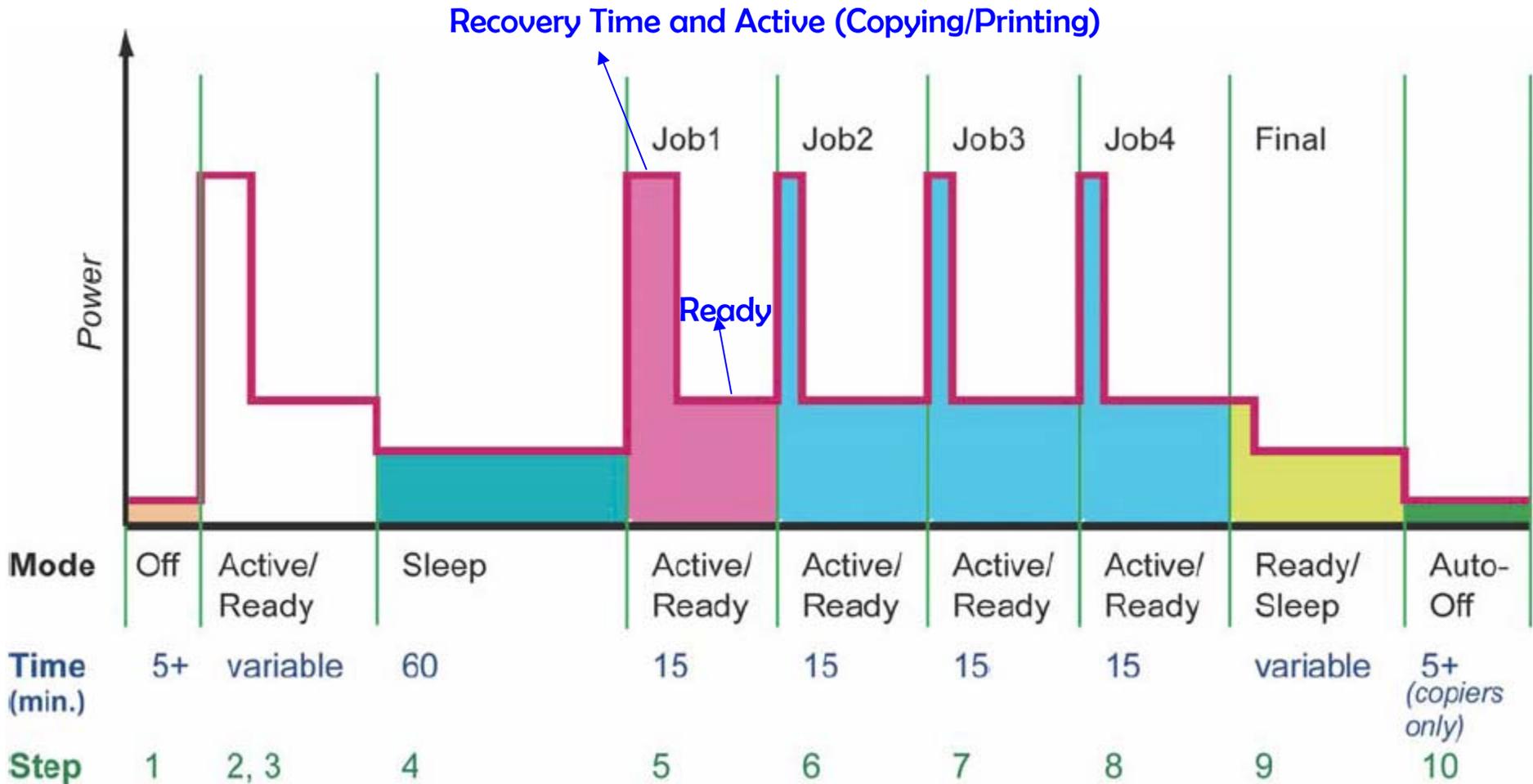


Ricoh's Proposal

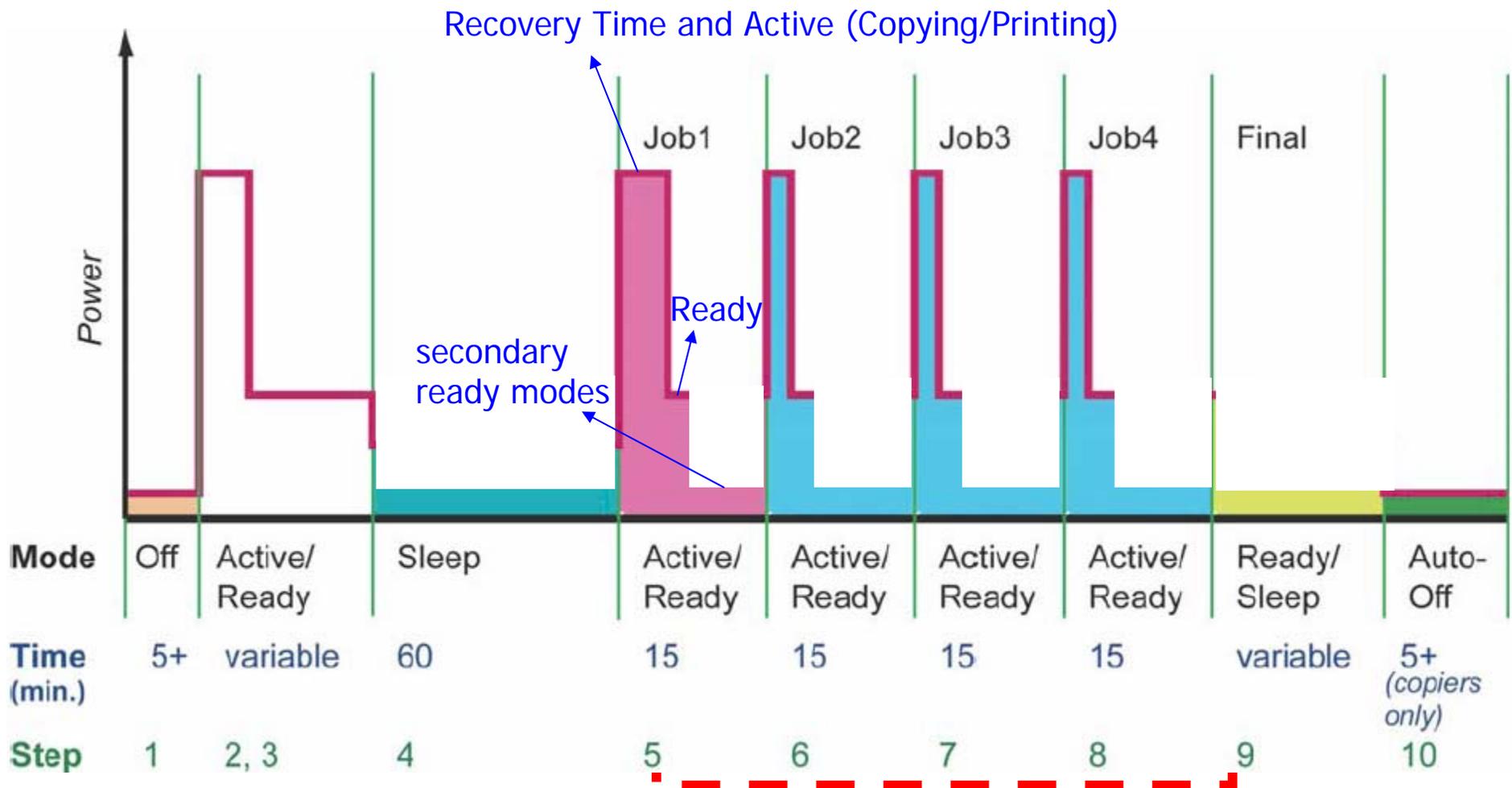
If an IE Program Partner chooses to have its machine utilizes “short default-delay time” within TEC Test Procedure (between step 6-8) and goes to secondary ready mode(s), such machine shall have a short recovery time.

Energy Star Draft Test Procedure:



Notes: Step 6

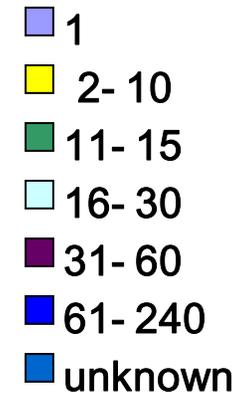
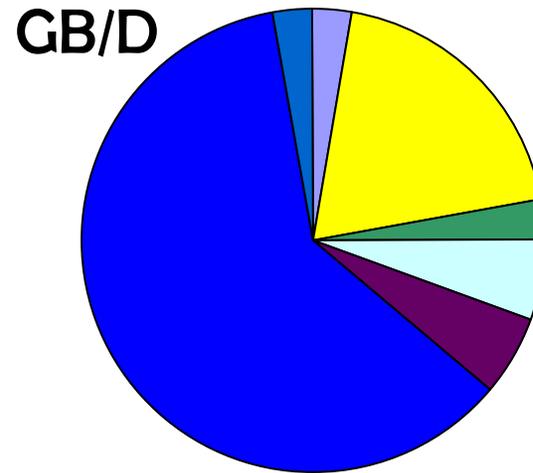
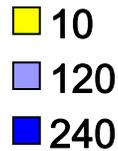
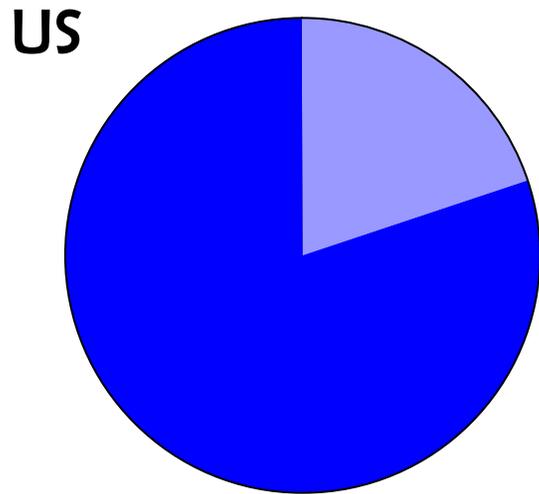
A unit that is shipped with short default-delay times might begin Steps 6-8 from sleep or auto-off



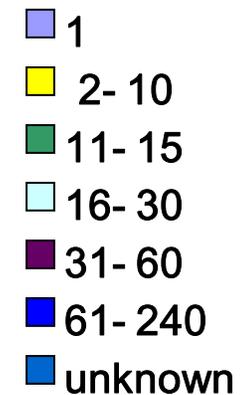
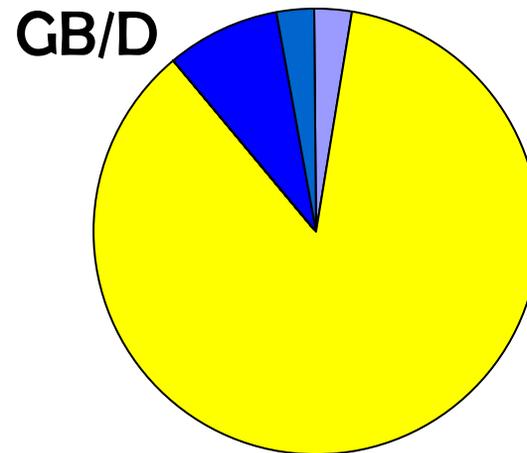
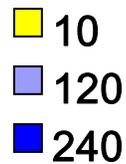
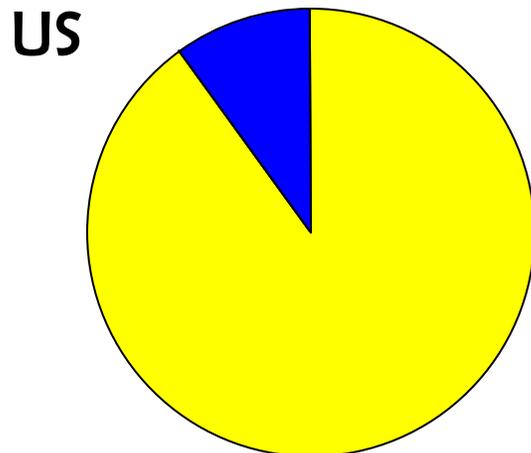
Concerns

- By minimizing “short default-delay time”, a machine will spend more time in secondary ready mode(s), resulting an improved TEC value.
- If such “recovery time” from secondary ready mode(s) takes longer, customers tend to either disabling power management feature or changing to “longer” timer setting.

• Typical Timer Settings in Office Environment



• Acceptance Ratio of 10-sec Recovery Time (Timer set at 10 min)



Almost 90% of users can accept default-delay timer setting of 10 minutes if a machine comes back from sleep in 10 seconds.

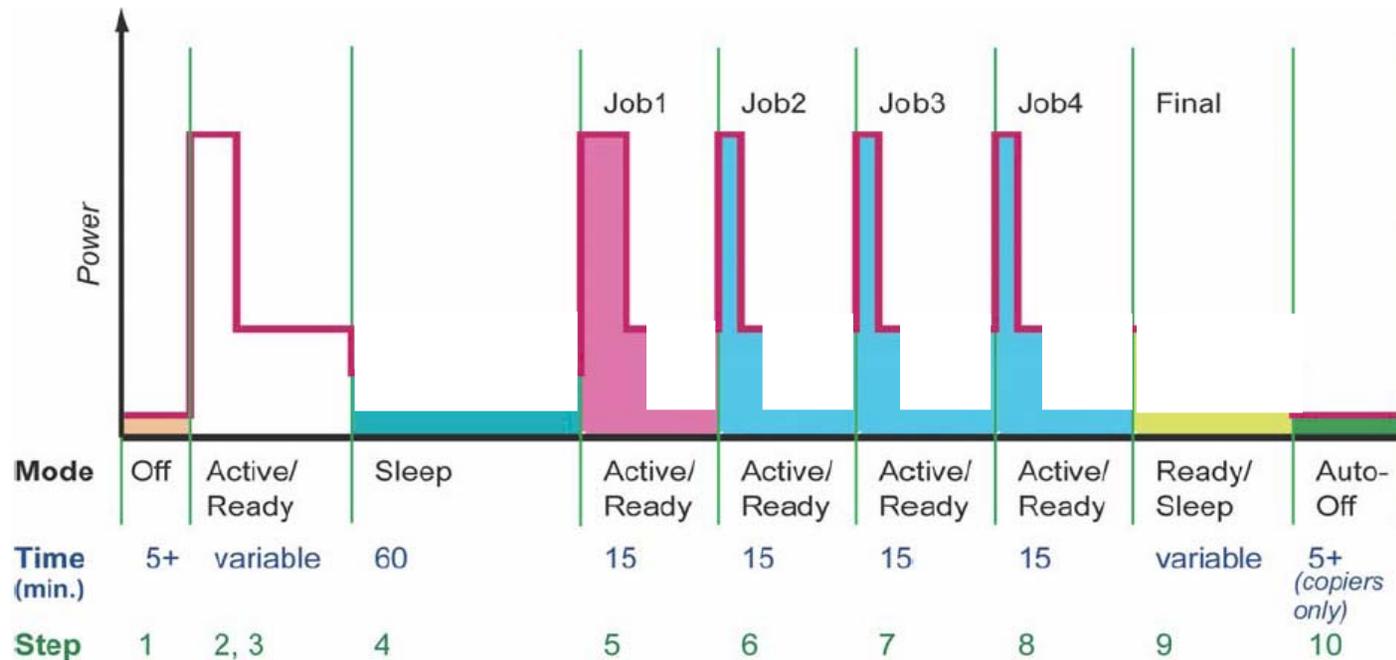
* Data/Survey performed by Ricoh

Awareness of “Quick Recovery”

- Short recovery time of 10 sec. is acceptable for customers if they understand the benefit of energy saving features.
- Upon appropriate explanation, equipment with quick recovery can reduce energy consumption by enabling power management features
 - “10 seconds” concept is in line with *IEA Copier of the Future* Requirement



RICOH's Proposal



<Current Sentence>

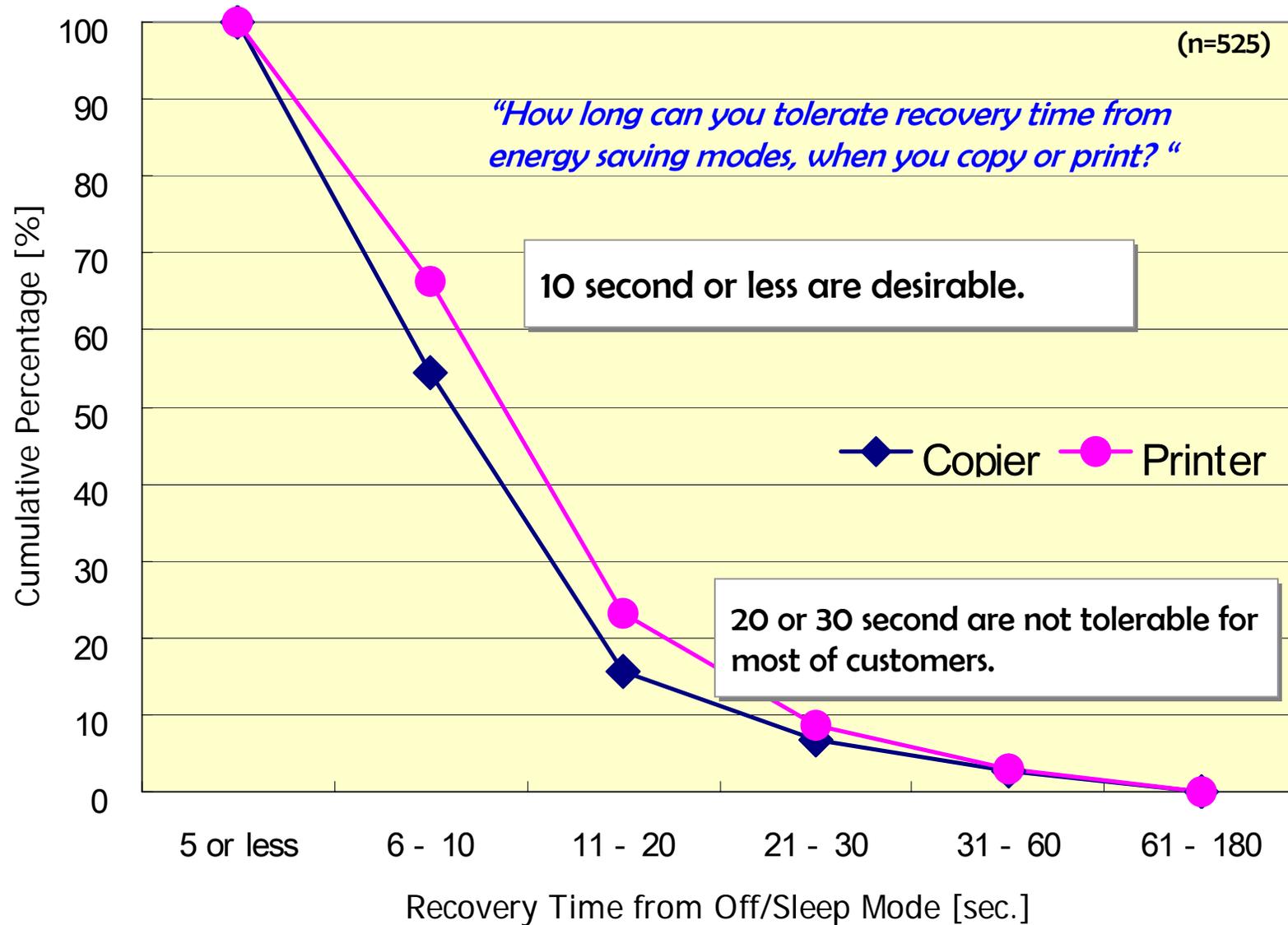
A unit that is shipped with short default-delay times might begin Steps 6-8 from sleep or auto-off.

<Revised Sentence>

Machine with short recovery time from Sleep mode may begin step 6-8 from secondary ready mode

Reference

Tolerable recovery time for customers



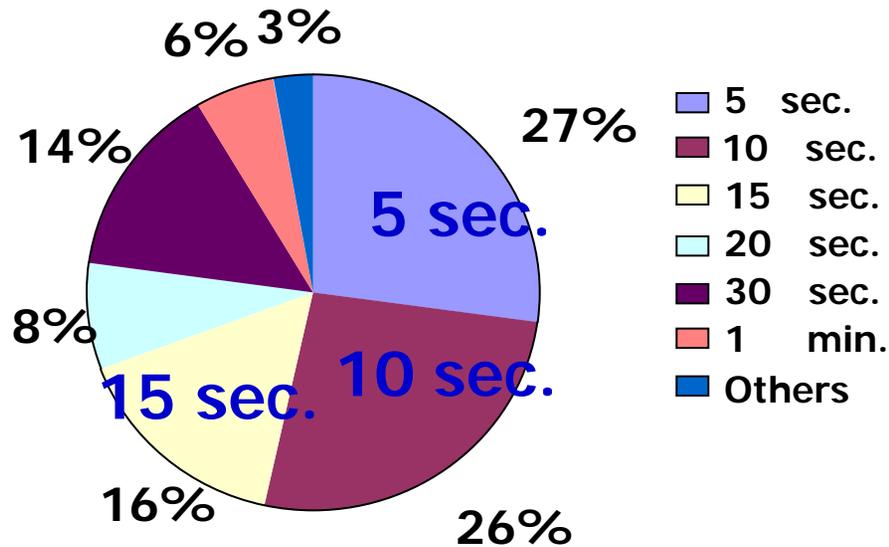
From “RICOH’s customer survey on sustainability of copiers (2003) in Japan”

Reference

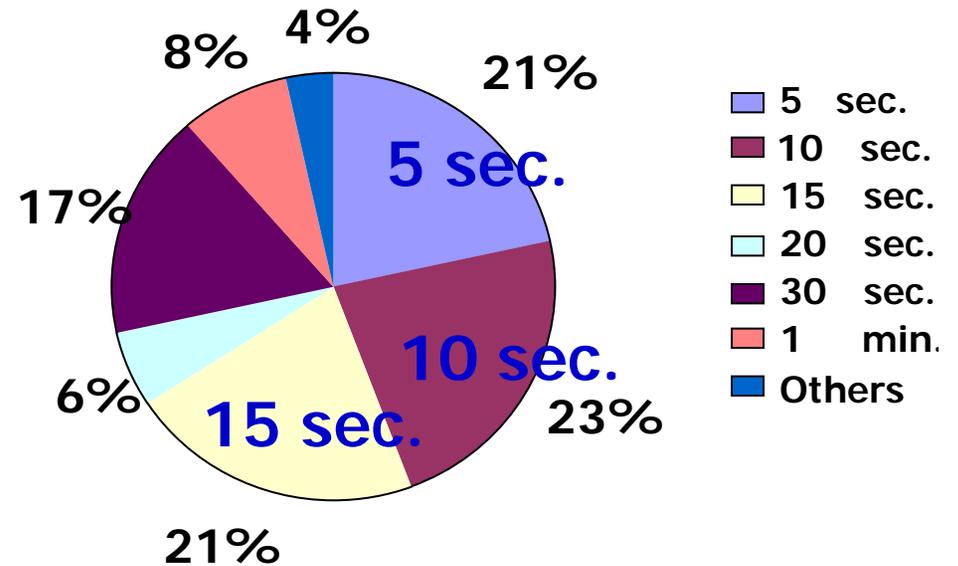
Tolerable recovery time for customers

N=140

Copier



Printer



* RICOH's internal survey in the US (2005)