

Intel Ireland Ltd/ Fraunhofer Institute (IISB) Integrated Systems and device Technology

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Intel Ireland Campus

5,500 direct & indirect employees,
3.7 million sq foot of buildings!

Ireland Fab Ops



FAB24



FAB10

FAB14

FAB24

FAB24-2

Technology

0.350 μ	Logic
0.250 μ	Logic
0.180 μ	Logic
0.130 μ	Flash
0.090 μ	Logic
0.065 μ	Logic

Project Idea...."Efficient Energy Use in Manufacturing Industry" (Energy 8.1)

- Energy conservation potential
- Analysis of main contributors and potential saving
- Applicable to any manufacturing industry involving hundreds of machines with focus on semiconductor industry
- Development of approach and methods for conservation on installed tools.
- Development of software for inline, continuous analysis of energy consumption of tools in production.
- Innovative recovery of heat / energy – reduction of energy waste

Main Project Drivers

- Higher energy costs is impacting manufacturing competitiveness
- Need for innovation on energy use and efficiency within manufacturing
- Environmental impact
- Potential for Europe to be world leader with regard to Energy efficiency in Manufacturing



Details

- Duration (medium term project; 3yrs – results needed to support existing manufacturing sector)
- Partners: manufacturers (IC & other); Energy Management (SME); Research institute; Academia
- Budget: 5 – 7 million Euro



