



# *Clean energy for EU islands, Workshop 4*

## *Demand side management*

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ΡΥΘΜΙΣΤΙΚΗ ΑΡΧΗ ΑΠΟΒΛΗΤΩΝ ΕΝΕΡΓΕΙΑΣ & ΥΔΑΤΩΝ  
REGULATORY AUTHORITY FOR ENERGY, WASTE & WATER

# Potential providers of DSM

- Individual intensive loads
  - Desalination
  - Waste management
  - Distinct heating
- Aggregation
  - Residential
  - Commercial
  - Touristic
- Considerations about aggregation
  - Flexibility of the underlying activities
  - Technical capability and response time

# Regulatory Framework

- Current (Particular Grid Code for insular systems - NII )
  - Hybrid and storage plants managed and dispatched centrally by the Operator, on daily basis
  - Provisions Capacity mechanism (currently only for generators)
- Potential adaptations / extensions in the NII G-Code
  - Include individual loads or aggregators as participants in the capacity mechanism for the service of Peak Shaving as equivalent of capacity addition
  - Introduce other services, e.g. ramping by generator and demand (individual loads, aggregators)

# Potential implementation

- Definition by the DSO of “products” and technical requirements for the provision of demand-side services
- Infrastructure upgrade for measuring and monitoring of services

Annual actions as the main reimbursing scheme  
-> DSO services contracts with providers

*\*A particular use case under examination in large islands*

*Current fleet of off-grid back-up generation (conventional or RES), owned and managed by customers (mainly hotels and touristic facilities) -> Demand Peak Shaving (capacity) service*