

ENTSO-E RES optimisation in TYNDP 2016 – how?

→ Generation costs and revenues of a hypothetical power plant in a given location

- E.g. PV generation cost = **CAPEX** (modules, inverters, structural components, installation cost, WACC) + **OPEX** (operation and maintenance, inverter replacement cost, land cost, take-back and recycling cost) **divided by electricity production** (depending on solar irradiance, performance ratio, lifetime, PV module degradation)
- E.g. PV revenues = earnings from electricity selling and savings on electricity bills

→ Infrastructure costs to integrate the given power plant

- Ideally not only costs but also benefits (e.g. fuel and emission savings) should be calculated, but difficult exercise