

# WBCSD Microgrid Hub

## Case study template

All of the information that you enter on this template will be made publicly available at [www.microgridhub.wbcasd.org](http://www.microgridhub.wbcasd.org)

Please fill in as much information as possible below. If you are not able to share information, please simply leave that question blank. Once complete, please email it together with a high resolution image to [Hunt@wbcasd.org](mailto:Hunt@wbcasd.org).

**Case study title:** [Insert name]

**Owner:** [Insert company name(s)]

**Location:** [Insert city, country]

**Project developer:** [Insert company name(s)]

**End-user:** [Insert company name(s)]

**Contract type:** [e.g. PPA agreement]

---

### 1. Assets

**1a. Existing assets** (original pre microgrid build or retrofit):

- Grid
- Diesel generator (please insert capacity)
- Natural gas generator (please insert capacity)
- Other (please insert capacity and generation type)

**1b. Upgrade assets** (post microgrid build or retrofit):

- Grid
- Solar PV (please insert capacity)
- Battery storage (please insert capacity)
- Diesel generator (please insert capacity)
- Natural gas generator (please insert capacity)
- Other (please insert capacity and generation type)

### 2. User case

**2a. Grid type:** please select 1 or more option below

- Off-grid
- Unreliable or unsatisfactory grid
- Reliable grid

**2b. Microgrid type:** please select 1 option below

- Greenfield (no existing microgrid)
- Brownfield (retrofit of existing microgrid)

**2c. End user:** please select 1 option below

- Extractive industry
- Industrial facility
- Commercial facility
- Other (Please indicate)

### 3. Business case

**3a. Energy security:** *E.g.: Allows full autonomy, production keeps running even during grid power outages*

**3b. Cost savings:** *E.g.: Decreases fuel consumption by X liters, achieves X% savings in energy costs, reduction in peak demand charges*

**3c. Sustainability:** *E.g.: Decreases CO<sub>2</sub> emissions by X tons per year, reduces national use of gas peakers*

**3d. Other:** *E.g.: Creates a number of local jobs during both the construction phase and for its ongoing operation*

## Optional pages

### 4. Summary

**4a. Case study summary** (*this will appear on a separate pop-out page alongside the contact details below. Please provide a single paragraph summary of the project.*)

### 4b. Find out more

*[Insert link to specific project information on website (optional)]*

*[Insert email address of contact person (optional)]*

### 5. How is the project financed?

#### 5a. Type of finance:

Third party: The project was financed through an Independent Power Producer (IPP) / Infrastructure Fund / Other (please specify).

The project was self-financed. [Insert sentence on involvement of construction and service contractors]

#### 5b. Project economics:

Access to subsidies: [insert description of the subsidy type (government grant/tax credits/debt facilities/other)]

External revenue streams: [insert description of external revenue streams the project benefitted from (e.g. sale of surplus power to grid/frequency and voltage regulation services)]

#### 5c. Other:

Innovative capital raising through crowdfunding or community ownership: [insert description]

Further information on project financing not covered in the previous questions: [insert description]

## 6. How is the project regulated?

### 6a. Permit requirements:

- Permit requirements equivalent to a large power project [insert description if needed]
  
- Simplified permit requirements for a small scale project [insert description if needed]

### 6b. Other regulations: please select and add description where appropriate

- The project is exempt from unbundling regulations: [insert description]
  
- Regulations are in place relating to grid integration (for selling surplus power to the grid/for integration with a future grid extension/for reconnecting the microgrid after island mode): [select and insert description]
  
- Import tariffs apply for imported microgrid technology parts: [insert description]
  
- Further information on project regulation not covered in the previous questions: [insert description]

## 7. What are the social and environmental benefits?

### 7a. Please select the benefits provided by the project (excluding benefits given in 'business case' section on p. 1)

- Increased business activity [insert description]
  
- Health, education and financial inclusion for low income households [insert description]
  
- Local employment [insert description]
  
- Increased resilience due to protection from power outages [insert description]
  
- Reduced air pollution and health benefits [insert description]
  
- Reduced emissions from obsolete fuel transport [insert description]
  
- Reduced need for centralised fossil fuel power plants [insert description]
  
- Other (please specify) [insert description]