

Climate Risk Screening with AWARE

relation to a risk topic.

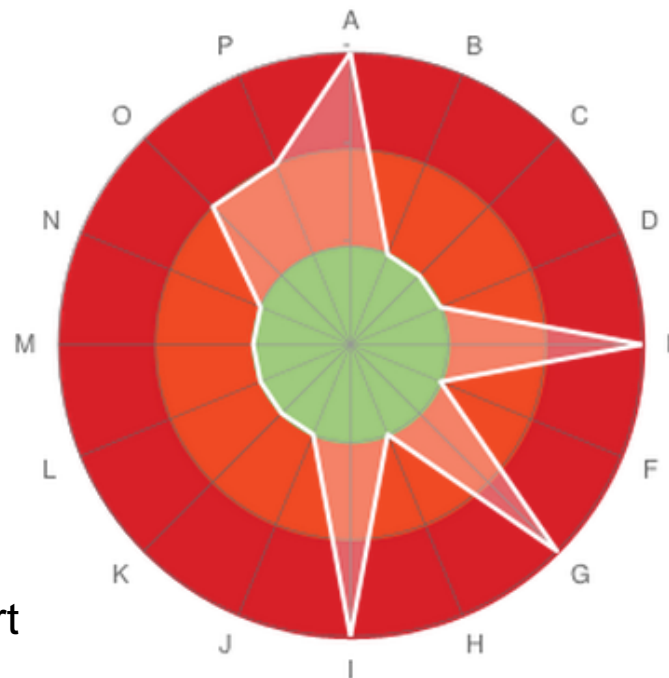
In the remaining sections of this report more detailed commentary is provided. Information is given on existing and possible future climate conditions and associated hazards. A number of questions are provided to help stimulate a conversation with project designers in order to determine how they would manage current and future climate change risks at the design stage. Links are provided to recent case studies, relevant data portals and other technical resources for further research.

Final project risk ratings

High Risk

- Web-based tool for climate risk screening projects
- Data from CMIP5 general circulation models; databases on natural disasters
- Combines exposure data and sensitivity information in 16 areas of risk
- Provides formatted output report with links to more detailed source data; guidance on model agreement, uncertainty, critical thresholds and robust decision making

Breakdown of risk topic ratings



A) Temperature increase

B) Wild fire

C) Permafrost

D) Sea ice

E) Precipitation increase

F) Flood

G) Snow loading

H) Landslide

I) Precipitation decrease

J) Water availability

K) Wind speed increase

L) Onshore Category 1 storms

M) Offshore Category 1 storms

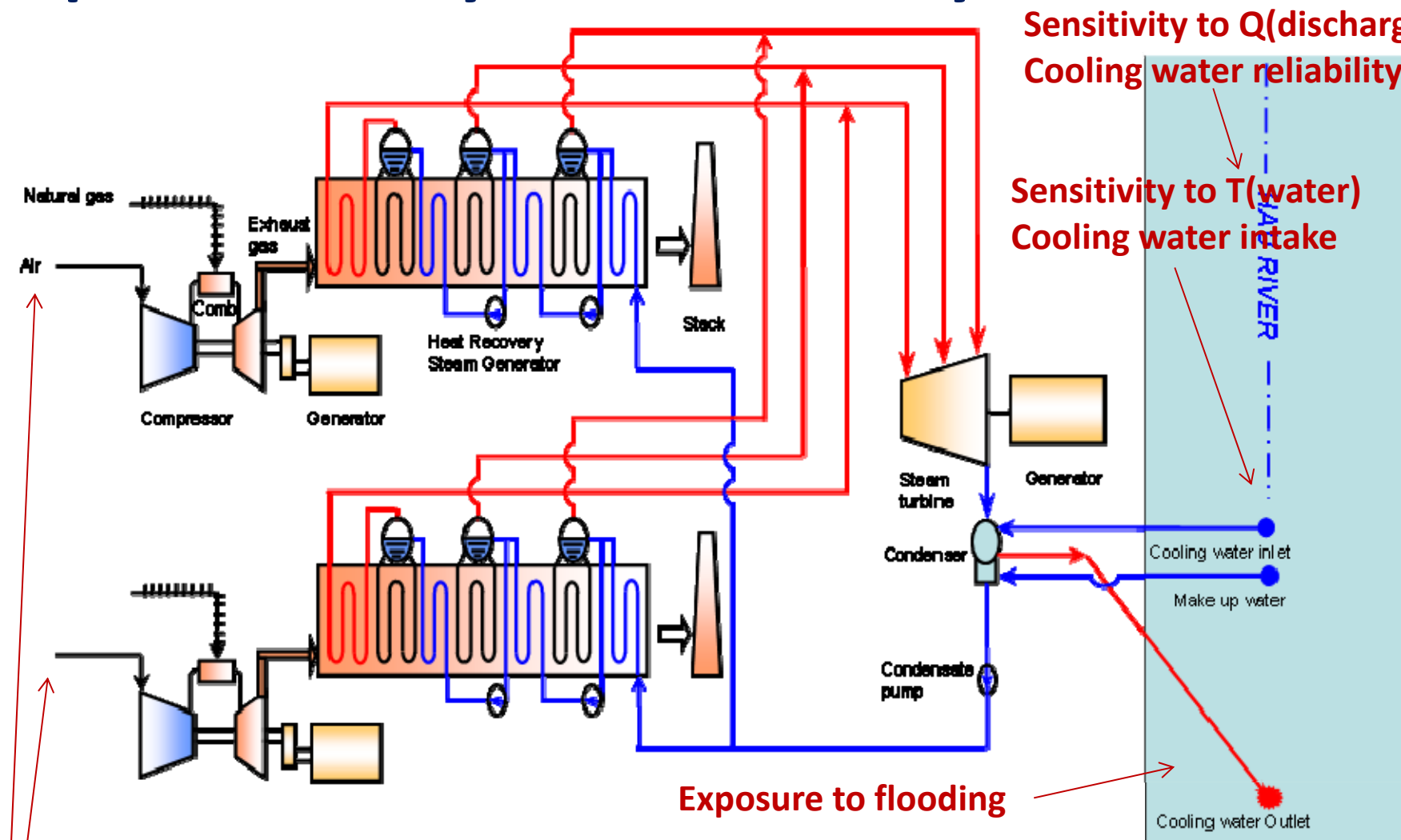
N) Wind speed decrease

O) Sea level rise

P) Solar radiation change

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Impact Pathways: Combined Cycle Power Plant




Sensitivity to T(air)

Sensitivity to T(water)
Cooling water discharge
(environmental standard)

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GIS for Adaptation Planning, Implementation

Critical Infrastructure (CI) Asia 

GIS Database

Data Inventory

Data Explorer

GIS Database

Select region/country:
Vietnam

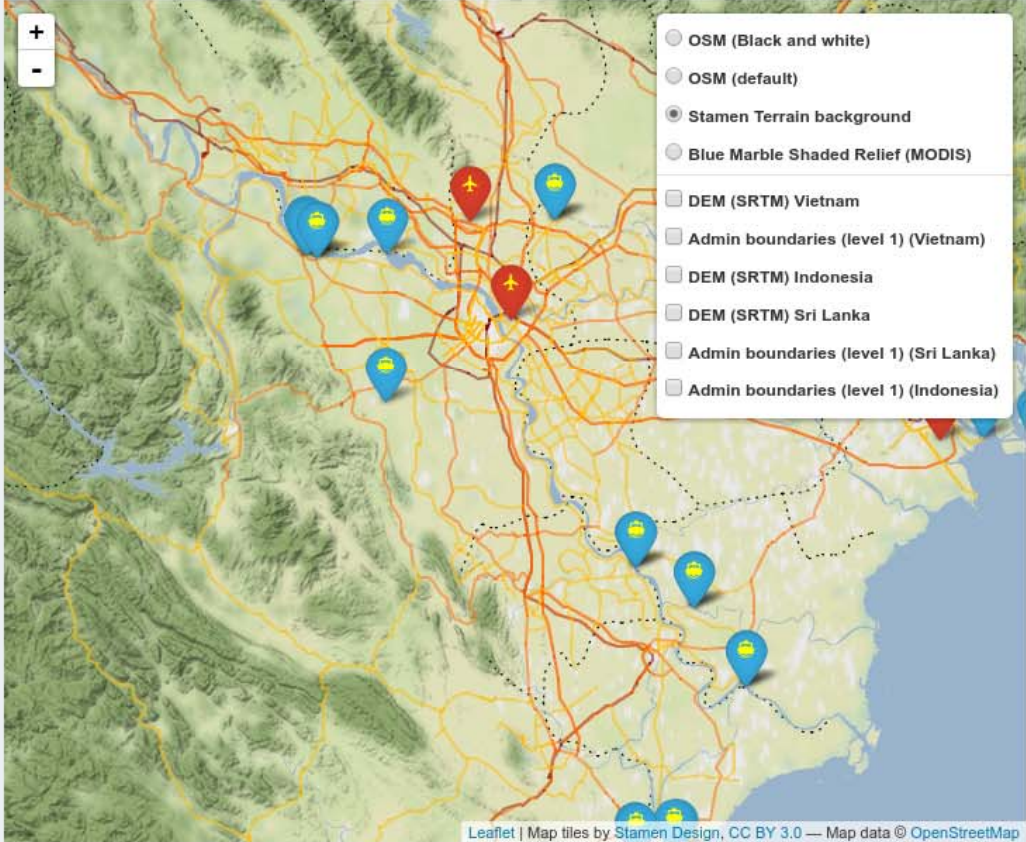
Assets Threats Vulnerabilities

Transportation, energy and water infrastructure:

- Rail (Vietnam)
- Motorway/trunk roads (Vietnam)
- Primary roads (Vietnam)
- Airports (Vietnam)
- Ferry terminals (Vietnam)

Regional layers:

- Country boundaries
- Coastlines (TBD)
- Urban areas (TBD)



Legend:

- OSM (Black and white)
- OSM (default)
- Stamen Terrain background
- Blue Marble Shaded Relief (MODIS)
- DEM (SRTM) Vietnam
- Admin boundaries (level 1) (Vietnam)
- DEM (SRTM) Indonesia
- DEM (SRTM) Sri Lanka
- Admin boundaries (level 1) (Sri Lanka)
- Admin boundaries (level 1) (Indonesia)

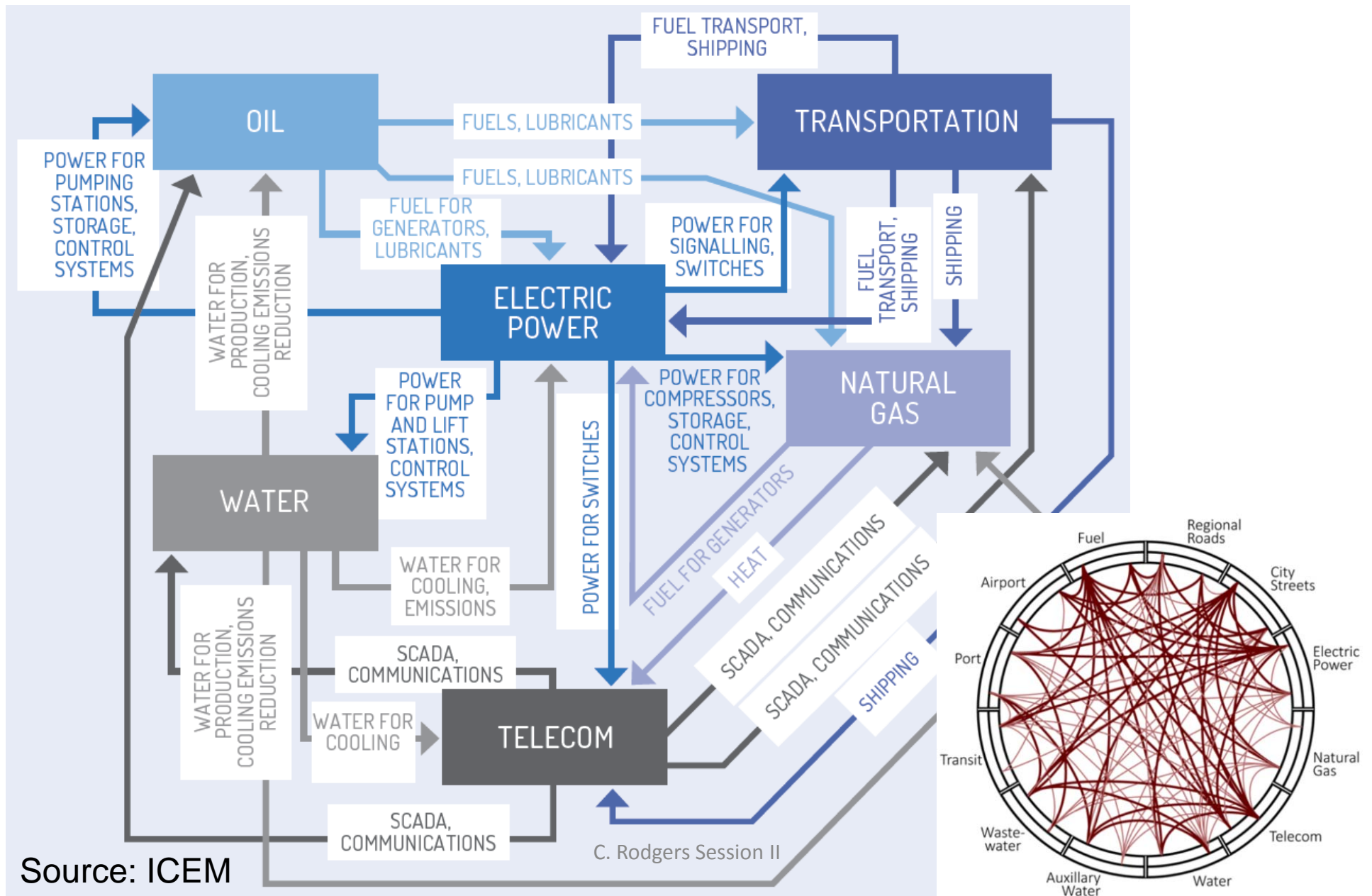
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Source: ICEM

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Interdependence of infrastructure



Source: ICEM

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