



Pure Water
San Diego

North City Renewable Energy Project

Design/Build/Finance/Operate/Maintain

Pure Water

will produce

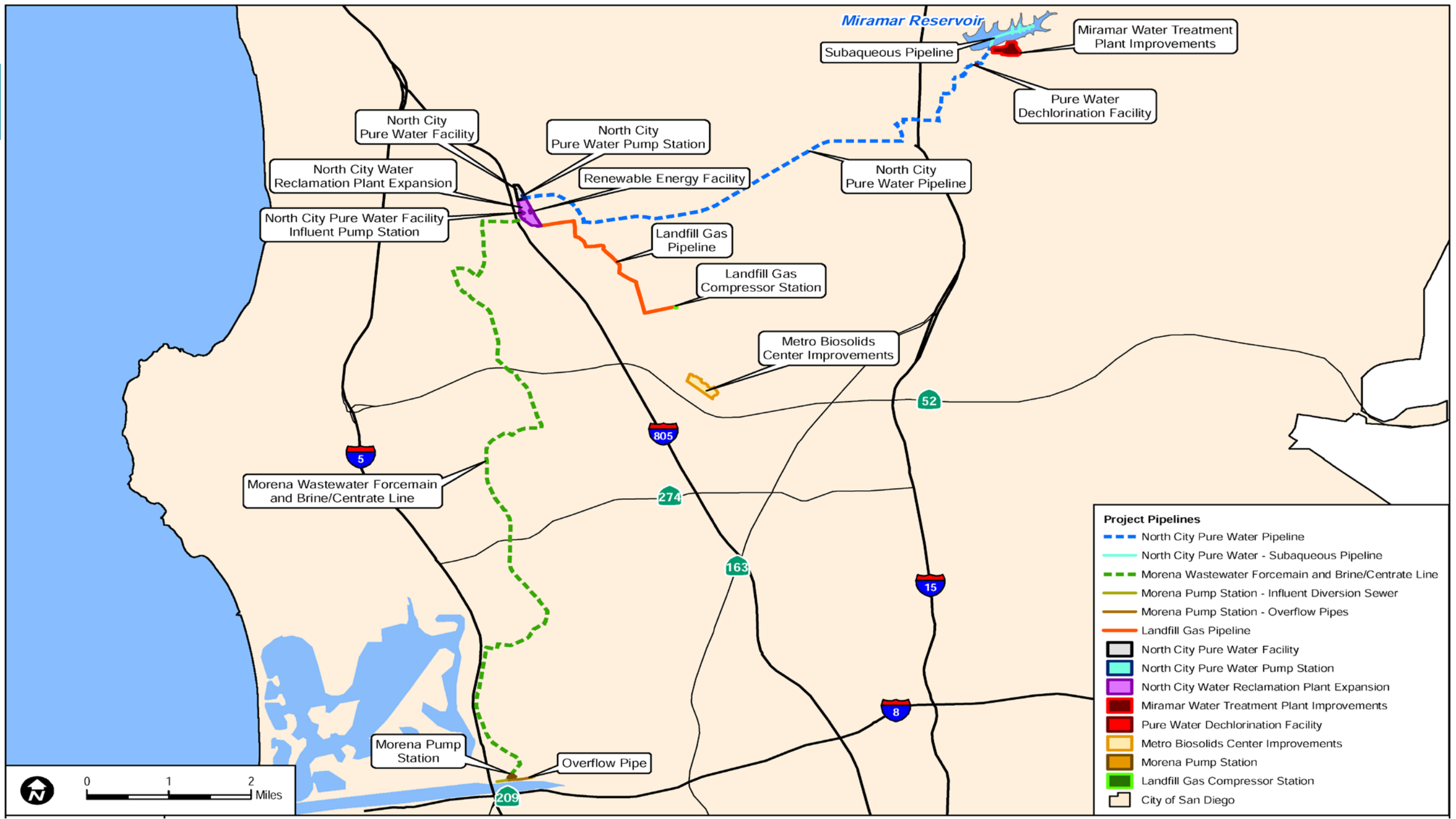
1/3

of your water
locally

Phase 1

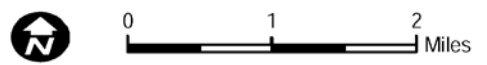
- 2021 Completion
- 30 mgd
- North City PWF to Miramar



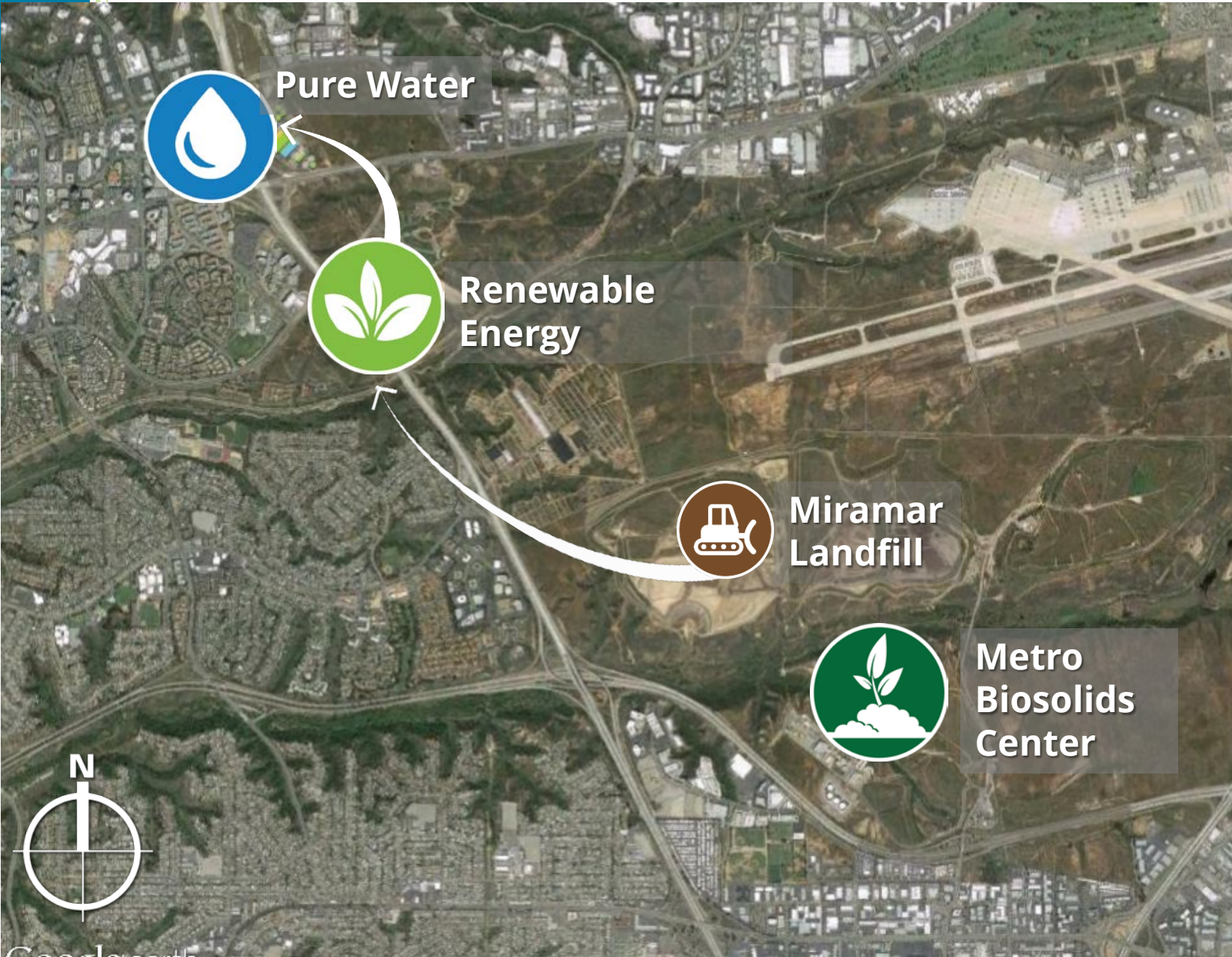


North City Pure Water Facility
 North City Water Reclamation Plant Expansion
 North City Pure Water Facility Influent Pump Station
 North City Pure Water Pump Station
 Renewable Energy Facility
 Landfill Gas Pipeline
 Landfill Gas Compressor Station
 Metro Biosolids Center Improvements
 Morena Wastewater Forcemain and Brine/Centrate Line
 Morena Pump Station
 Overflow Pipe
 Miramar Reservoir
 Subaqueous Pipeline
 Miramar Water Treatment Plant Improvements
 Pure Water Dechlorination Facility
 North City Pure Water Pipeline

- Project Pipelines**
- North City Pure Water Pipeline
 - North City Pure Water - Subaqueous Pipeline
 - Morena Wastewater Forcemain and Brine/Centrate Line
 - Morena Pump Station - Influent Diversion Sewer
 - Morena Pump Station - Overflow Pipes
 - Landfill Gas Pipeline
 - North City Pure Water Facility
 - North City Pure Water Pump Station
 - North City Water Reclamation Plant Expansion
 - Miramar Water Treatment Plant Improvements
 - Pure Water Dechlorination Facility
 - Metro Biosolids Center Improvements
 - Morena Pump Station
 - Landfill Gas Compressor Station
 - City of San Diego



North City Renewable Energy Project

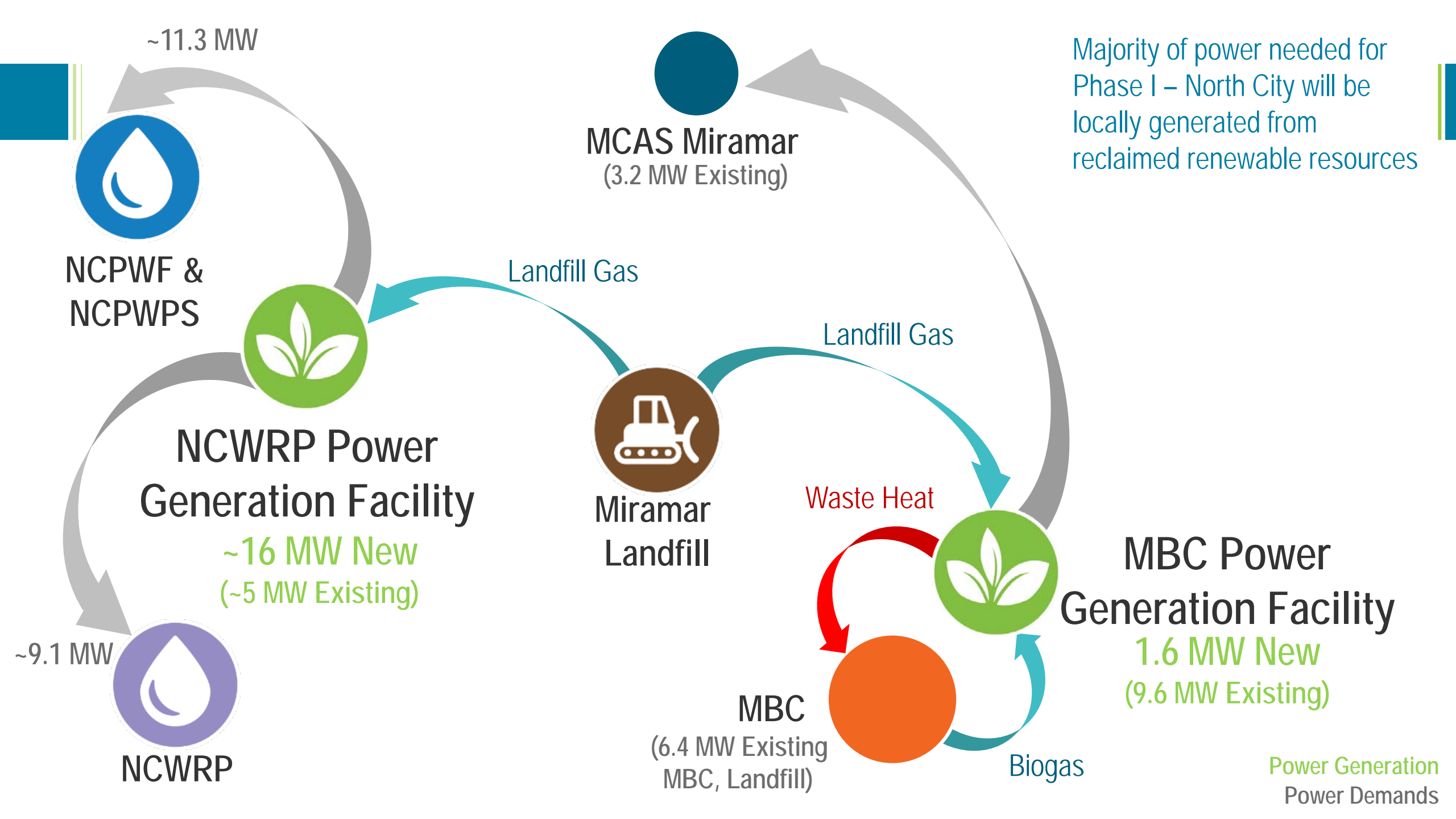


- PUD / ESD partnership
- Supports GHG reduction
- Generate ~16 MW renewable energy
- Landfill compliance

Additional Power Generation

- Renewable power generated by capturing landfill gas
- ~16 MW new power generation at NCWRP for City's:
 - *North City Water Reclamation Plant Expansion*
 - *North City Pure Water Facility*
 - *North City Pure Water Pump Station*
- 1.6 MW new power generation at MBC
- Enough generation to power ~22,500 homes





Majority of power needed for Phase I – North City will be locally generated from reclaimed renewable resources

MCAS Miramar
(3.2 MW Existing)

~11.3 MW

NCPWF &
NCPWPS

Landfill Gas

Landfill Gas

NCWRP Power
Generation Facility

~16 MW New
(~5 MW Existing)



Miramar
Landfill

Waste Heat

MBC Power
Generation Facility

1.6 MW New
(9.6 MW Existing)

~9.1 MW



NCWRP

MBC
(6.4 MW Existing
MBC, Landfill)

Biogas

Power Generation
Power Demands

20-year Public-Private Partnership (P3) Design/Build/Finance/Operate/Maintain (DBFOM)

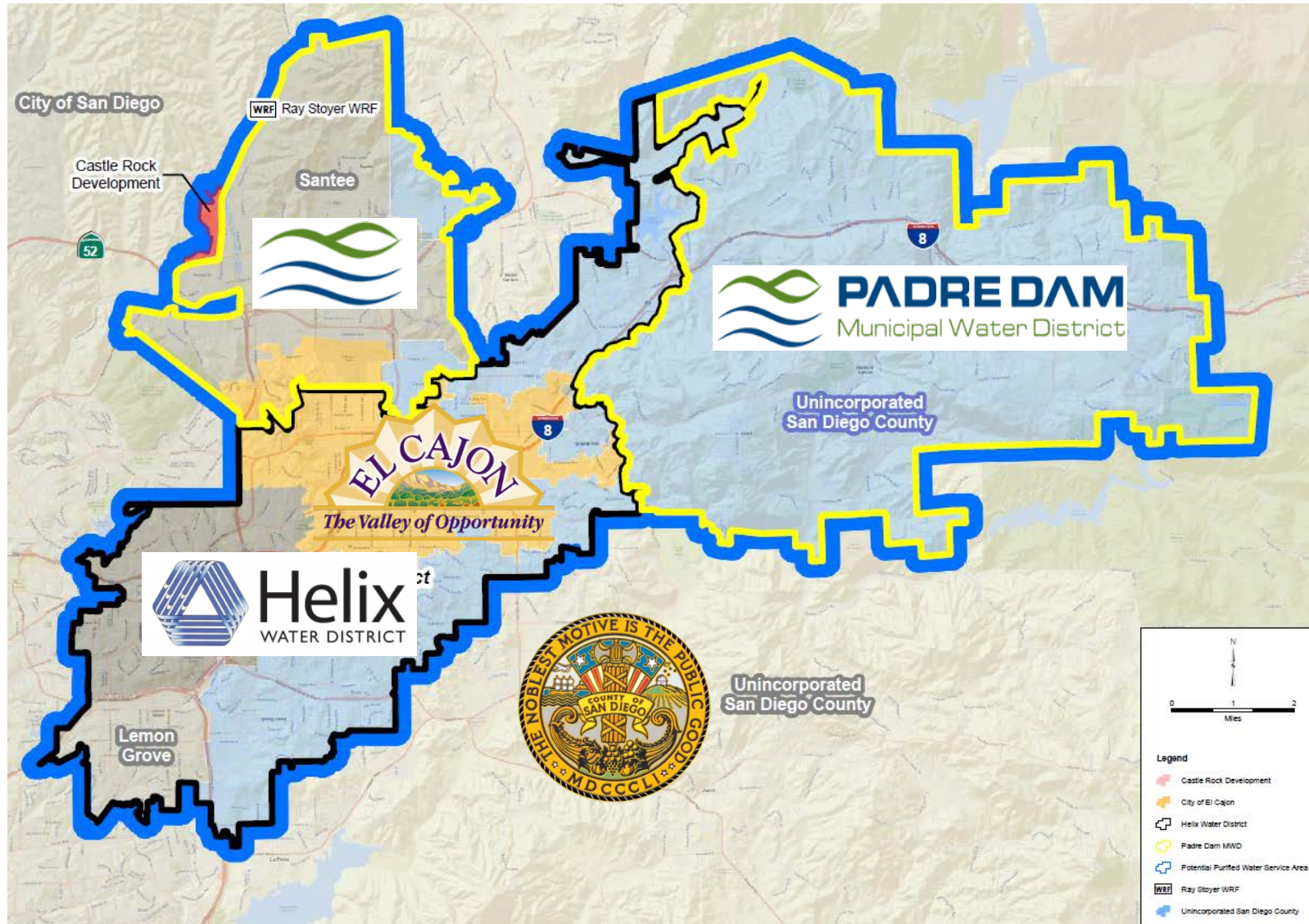
The DBFOM scope of work for the private party will include:

- Project financing, including design and construction
- Installation of generators at NCWRP and MBC for power production
- Installation of a landfill gas cleaning, compressor station, and pipeline
- Operations and Maintenance of existing landfill gas collection system
- Securing project permits, including Building Permits and Air Pollution Control District permits

DBFOM Procurement



East County AWP Program – Service Area



Program Goals

- Produce up to 30% of the East County's potable supply
- Phase 1 (2021) – 6 mgd WW -> 3.5 mgd Purified
- Phase 2 (2024) – 15 mgd WW -> 10.5 mgd Purified
- Phase 2 of CoSD PW design assumes Phase 2 of PD PW is implemented

East County AWP Program – Program Components



Ray Stoyer WRF

Purified Water Pipeline

Eucalyptus Hills

Santee

Lakeside

Lake Jennings

Santee Basin GRRP

Levy WTP

Winter Gardens



52

Questions?