



Advancing Non-Conventional Water Resources Management in Mediterranean and coastal areas: local solutions, employment opportunities and people engagement

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Sharing Experiences
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Seychelles Islands

- ❑ Inner islands: steep, granitic, lush forests, numerous streams
- ❑ Outer islands: low-lying/flat, coralline, mostly coconut or casuarina trees, no rivers
- ❑ Tropical climate with two seasons
- ❑ 8-9 months of wet/semi-wet season
- ❑ 3-4 months of very dry weather
- ❑ Average precipitation: around 2400mm/year
- ❑ Average daily temp: 30°C

Water Resources

- ❑ Major source of supply surface Water: total of over 20 catchments and 33 treatment plants
 - ❑ Seawater (since 2010)
 - ❑ Groundwater
 - ❑ Rainwater
- Also looking into
- ❑ Recycled greywater

Challenges

- **Population growth (rise in demand)**
- **Ageing infrastructure**
- **Pollution (uncontrolled development within water catchments)**
- **Lack of regulatory and institutional frameworks**
- **Weather extremes**
- **Limited raw water storage capacity**

Sea Water (Desalination)

- ❑ 6 plants (Anse Boileau, Bel Ombre, Providence, Perseverance, Eve Island, La Passe)
- ❑ Perseverance: 11,500kl/day
- ❑ Production mostly to sustain surface water productions during stressful events



Groundwater

- ❑ Historically mostly on La Digue
- ❑ Little contribution to date; salt-water intrusion and pollution from failed septic systems
- ❑ Recently, mapped out groundwater resources
- ❑ To date only the Montagne Posee and Bougainville groundwater sources are in use

Rainwater Harvesting

- Long history of using rainwater, albeit simpler technology
- Very readily available spares, but somewhat unaffordable/undesireable (other financial priorities take lead)
- Rainwater Harvesting Scheme (PUC)

Recycled Greywater



- **Integrated and Comprehensive Sanitation Master Plan**
- **Recycled wastewater for irrigation**

Way forward

- **Increasing capacity: raising of La Gogue Dam, possibility for two new dams**
- **Water network improvement**
- **Adoption of IWRM: community participation**
- **Seychelles Water Policy**



Thank you

