Osmoflo Experience working with Asian Development Bank

Ebeye Island Water & Sanitation Project Desalination Plant

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Contents

• Osmoflo Introduction

• Ebeye Island Desalination Plant Project

• Working with ADB
Osmoflo Introduction

- Established in 1991
- Adelaide HQ with International Offices
- Technology company - membrane specialists
- Over 450 WTP projects delivered
- Servicing wide range of industries internationally
- Projects Life Cycle Focus - Operations Support
Ebeye Island Water Supply

The Republic of Marshall Islands, Ebeye Island
Population 15,000 on 50 acres of land
80% of water demand met by desal
Ebeye Island Water Supply

Since 1990 five plants donated

Failed for reasons typical of other aid projects in the region:
  - Capex focus - Life Cycle Costs Ignored
  - Incompatible equipment
  - Lack of info / involvement of plant manufacturers
  - Unskilled local labour
Ebeye Island Desal Plant Project

Wider Water & Sanitation Project

Finance by OzAid + ADB Grant + RMI Govt

Project: ADB Administered

Harrison Grierson NZ Owners Eng

Owner – KAJUR Inc

International Tender Sep 2015 – scope:

EPC 46w for equip delivery

54w first water

O&M 2y full risk
Ebeye Desal Plant
O&M by Osmoflo

Plant delivered and installed on time

O&M
Initial training at Osmoflo Adelaide
On-site presence, reducing over 2y

Ongoing up-skilling of local operators
Ebeye Desal Plant
O&M by Osmoflo

24/7 Remote monitoring of plant operation

Monthly reporting and maintenance planning
EBEYE DESAL PLANT
Y1 OPERATION OUTCOMES

100% Availability

Fine tuning of plant operations to follow the demand – long term benefits

Positive energy usage outcomes – 30% less

Expected op cost savings from prolonged membrane life – no clean required for 10m

Health outcomes – AGEs down by ~50%

Community engagement/education

Long term sustainability
Osmoflo Experience Working with ADB

Project Design / Definition:
- Life Cycle Focus – suits Osmoflo’s business model
- Design & Overseeing of implementation

Good Governance of the Tendering Process:
- Contractual Clarity
- Professional, Multifaceted Evaluation of Tenders - level playing filed
- Security / Guarantee of Payments

Contract Management:
- Sufficient level of fiduciary oversight
- Claims/payment process was relatively complex but worked
  - KAJUR / ADB’s Consultant / RMI’s Consultant

Future: Earlier involvement/support to projects development
Thank You