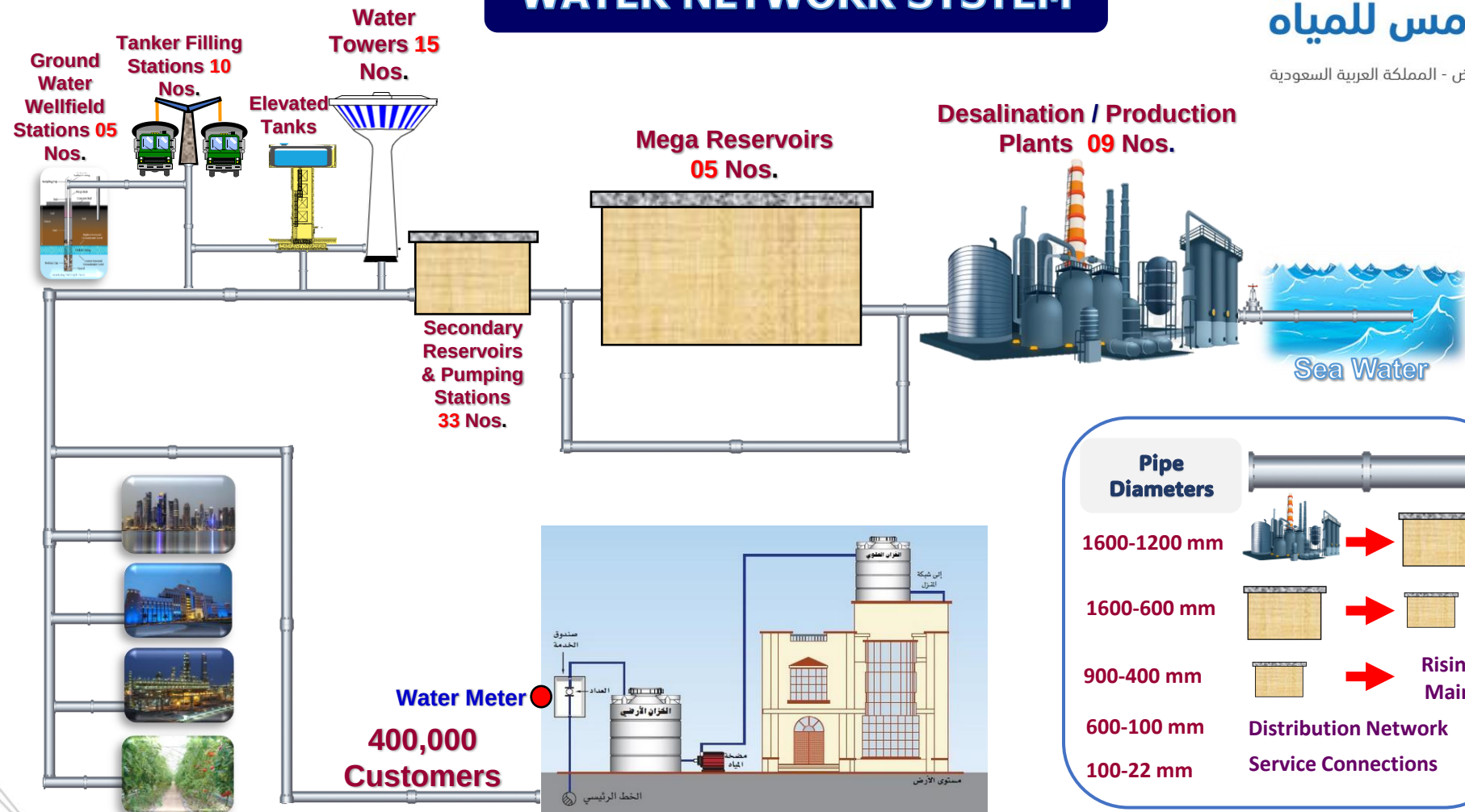


# KAHRAMAA WATER NETWORK SYSTEM MEGA RESERVOIRS

Tariq Othman Bawazir  
Head, Water Operations Section



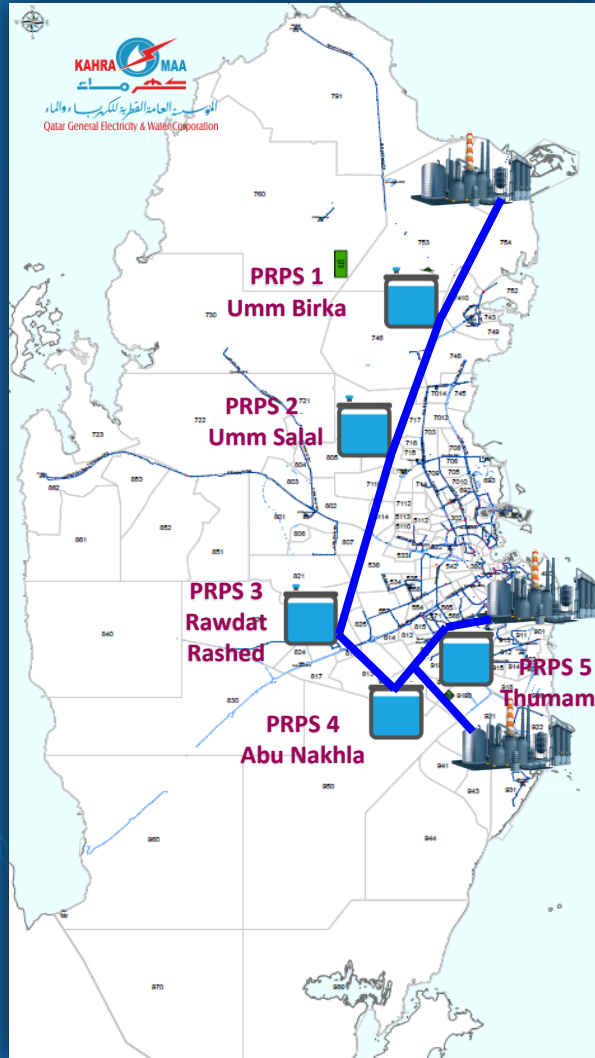
# WATER NETWORK SYSTEM



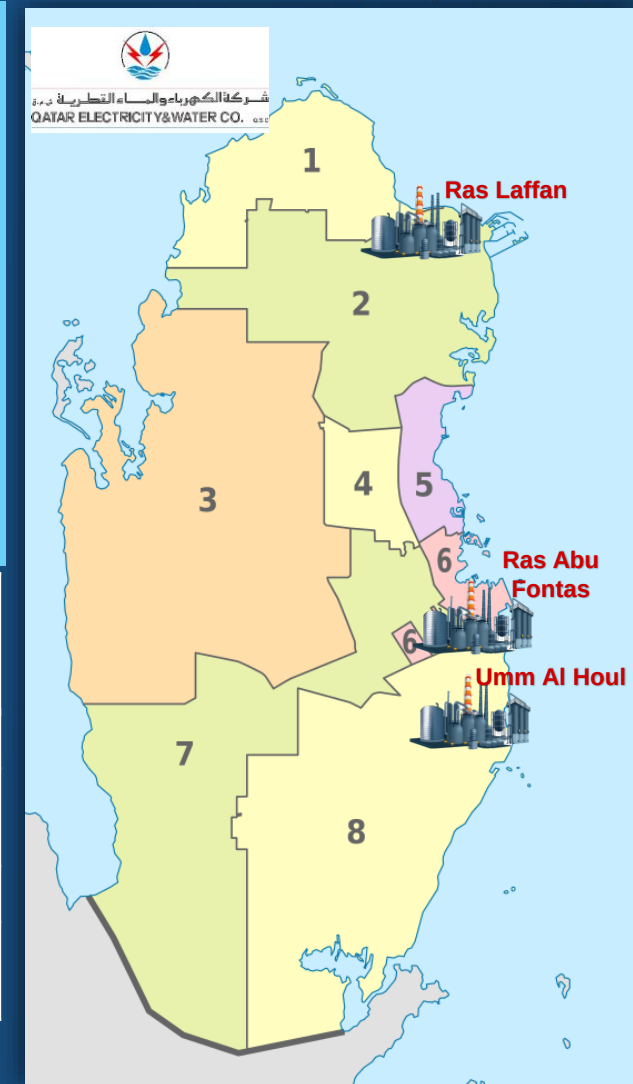
**More than 9,800 KM total length  
of Water Networks**



# Water Production Plants and Mega Reservoirs



| Name & Location | Nos. Of Stations     | Production % |
|-----------------|----------------------|--------------|
| Ras Laffan      | 3                    | 34           |
| Ras Abu Fontas  | 5                    | 37           |
| Umm Al Houli    | 1                    | 29           |
| Total           | 09 Production Plants |              |





# Mega Reservoirs

**Total 15 reservoirs with capacity of around 100 MIG each**

**650 km of large diameter pipelines interconnecting all Mega and production plants**

**The construction of Mega reservoirs directly involved in the improvement of the two main operational factors:-**

**1- Strategic Storage**

**2- Operation Flexibility**



# Strategic Storage



**Water Storage in Secondary RPSs– 970 MIG**

**Mega Reservoirs Water Storage – 1422 MIG**

**Total Water Storage including Mega Reservoirs– 2392 MIG**

**That equals to 5 days storage in addition to one day storage at the production side.**

**Ultimate storage capacity shall be 3781 MIG by 2036**

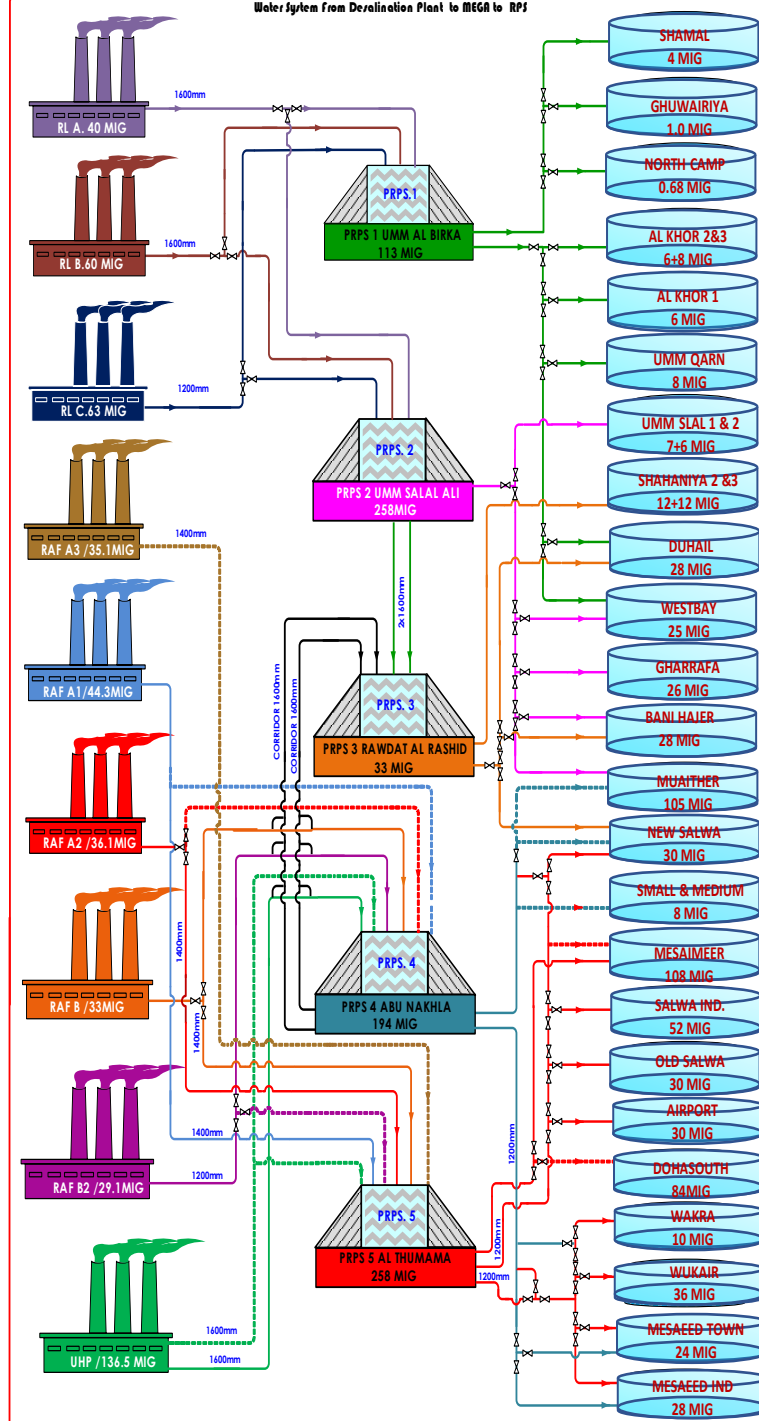
# Flexibility of operation



**Production Failure: Mega Reservoirs corridor mains**

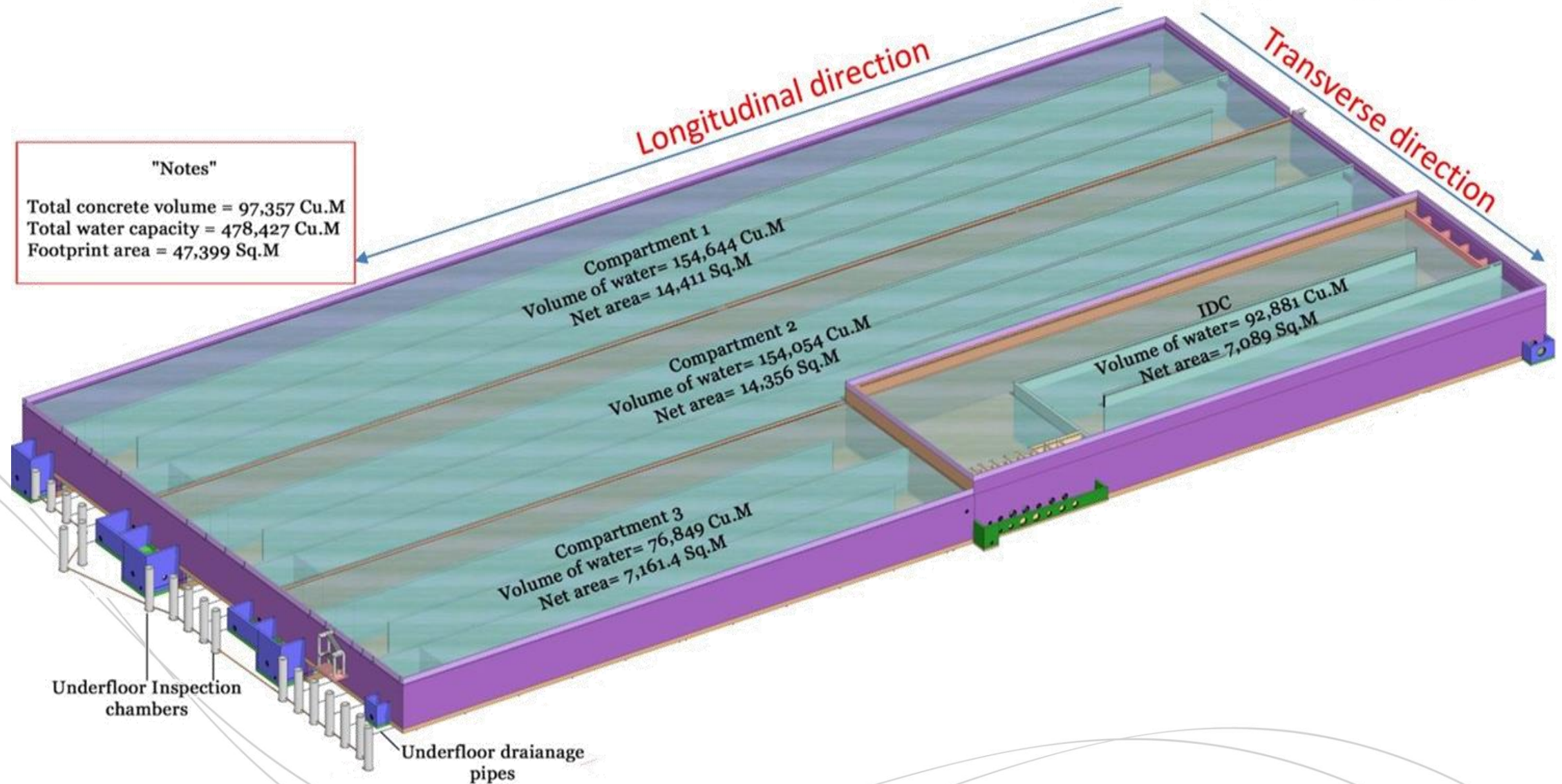
**Mega Reservoirs Failure:**

- Alternate sources to secondary reservoirs from other Mega station
- Supply secondary RPSs directly from production plants



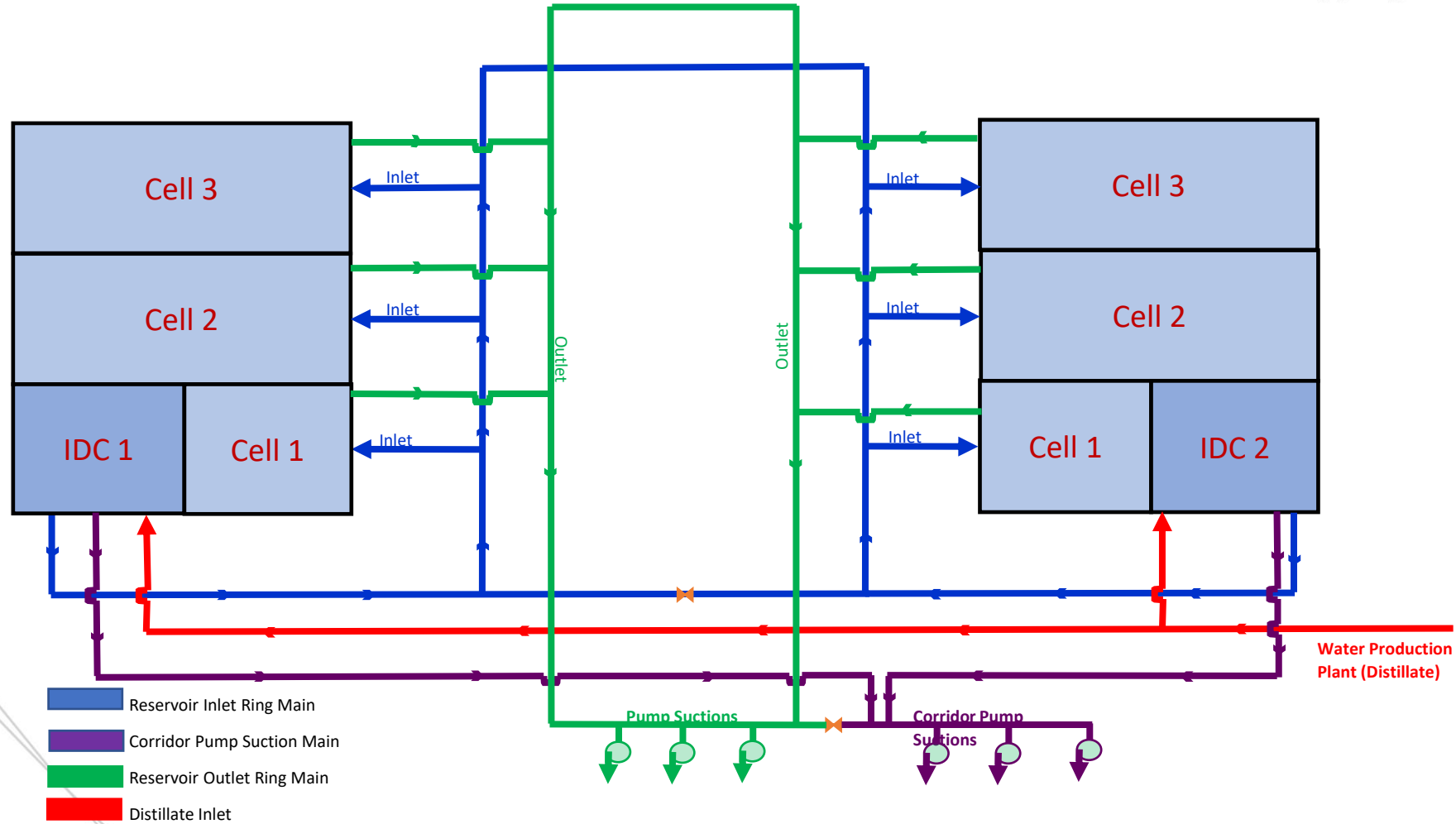


# Project Scale





# Mega Reservoir Internal Arrangements



THANK YOU

