FOSS experience of KSEB

KSEB

- Installed Capacity   - 2850 MW
- Daily Consumption   - 60MU
- Peakload demand   - 3700 MW
- Substations   - 350
- Consumer strength   - 1.20 Cr
- Employees   - 31000
- ARR for 2014-15   - 12050 Cr

FOSS in KSEB

- Till 2006 we were using proprietary software like windows XP, Windows server 2003 etc

- The application software for billing, accounting, payroll etc were of propritary nature

- Hardware procurement was being done with proprietary software specifications

FOSS in KSEB

In 2006

- Constituted Expert Committee
- Platform independent development
- Adopt Client OS as Ubuntu Linux
- Server OS as Debian Linux
- RDBMS as Postgres
- Programming language as PHP

FOSS in KSEB

After 2006

- Development of core apps by inhouse team
- System Administration by in house team
- Procurement of h/w based on FOSS compatibility

Challenges

- Scarcity of trained manpower in linux administration

- Setting up of printers in linux systems – non availability of appropriate drivers

- Ubuntu linux support for PC's

- Attitude of a section of employees towards FOSS

- Attitude of management.

Achievements in FOSS

- First FOSS based solution for billing in power utility in India – Oruma

- Complete FOSS based solutions for accounting, HRM and SCM

- Building huge database management solution in FOSS – OrumaNET (1.2TB size, 1.20 crore consumers, more than 5000 regular active users)

Achievement in FOSS

- A 50 member team of experienced developers in FOSS

- Strong network of 100 Linux administrators across the State

- More than 7000 PC's and 4000 printers across the state are running in ubuntu linux.

- All RDBMS are community supported Postgres.

Current IT Systems

- Data Centre - 3200 sq ft (Tier III with server farm - 1700 sq ft)

- DR Centre

- WAN - 1000 offices (BSNL & Airtel)

- Online portal

- Centralised billing, accounting, HRIS & SCM

- Customer Care systems,GIS, MDAS, EA etc

New deliverables

- Smart phone based billing
- AMR, Prepaid metering, smart metering
- Mobile apps for customers
- All services through online
- Paperless billing solution
- Smart employees.
- ERP on FOSS platform

Ready to Support FOSS

- Migration to FOSS
- Consultancy for FOSS implementation
- Software development in FOSS platform
- Training on Linux administration, php, Postgres and other FOSS tools
- Server hosting
- End to end solutions.

Thank You