Technology Modernization
ABOUT NES

- Serving Middle Tennessee since 1939
- One of eleven largest public utility
- Power distribution to over 420K covering 700 SQ miles
- Maintain 5,900 miles of distribution and transmission lines
<table>
<thead>
<tr>
<th>Agenda</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Survey</td>
<td></td>
</tr>
<tr>
<td>Results of the Survey</td>
<td></td>
</tr>
<tr>
<td>Setup Context</td>
<td></td>
</tr>
<tr>
<td>Jump Start</td>
<td></td>
</tr>
<tr>
<td>Lessons learned</td>
<td></td>
</tr>
<tr>
<td>Maturity</td>
<td></td>
</tr>
</tbody>
</table>
Speakers:
Vishal Marneni – Enterprise Architect
vmarneni@nespower.com

Chris Beegle – Director of Infrastructure
cbeegle@nespower.com

https://forms.office.com/r/V9D4GA5yaG
If someone asks me what cloud computing is, I try not to get bogged down with definitions. I tell them that, simply put, cloud computing is a better way to run your business.

- MARC BENIOFF
CEO & FOUNDER SALESFORCE
Build vs buy vs partner

Build

Buy

Partner
# Pizza as a service

## Traditional On-Premises (On-Prem)
- Dining Table
- Soda
- Electric/Gas
- Oven
- Fire
- Pizza Dough
- Tomato Sauce
- Toppings
- Cheese

**Made at home**

## Infrastructure as a service (IaaS)
- Dining Table
- Soda
- Electric/Gas
- Oven
- Fire
- Pizza Dough
- Tomato Sauce
- Toppings
- Cheese

**Take and Bake**

## Platform as a service (PaaS)
- Dining Table
- Soda
- Electric/Gas
- Oven
- Fire
- Pizza Dough
- Tomato Sauce
- Toppings
- Cheese

**Pizza Delivered**

## Software as a service (SaaS)
- Dining Table
- Soda
- Electric/Gas
- Oven
- Fire
- Pizza Dough
- Tomato Sauce
- Toppings
- Cheese

**Dined Out**

**You Manage**

**Vendor Manages**
BUILD VS BUY

New Features
Less Downtime
Business enablement
Reduce downtime
Business enablement

SaaS
Form and Function

Movies

Music
JUMP START

2022
15 SaaS applications in NES’ portfolio

2021
4 SaaS applications

Sept 2019
First SaaS Implementation - Oracle HCM
LESSONS LEARNED

- Significant change in business processes
- Forced upgrades meant more end-user testing
- Immediate attention

- Industry standardization
- Less customization and more configuration
- Reduced Total Cost of Ownership
- Vendors and partnerships matter
IT WAS SPRING OF 2020....

New Business Requirement

Bill Print Vendor → Bill PDFs → Storage

Customer Portal

Intranet Portal

Partner Websites
Your site is fruit jokes.
NEWER RULES OF ENGAGEMENT

New Business Requirement
CURRENT USE CASES

- Storage and Serverless - Bill Presentment
- Storage and Serverless - Call Center Recordings
- Sentiment Analysis - Twitter
- Form Recognition - Nashville Electric Automatic Transfer
- File Processing - Meter Interval Read Aggregation
IN FLIGHT AND FUTURE CLOUD PROJECTS

- Disaster Recovery Site 3
- Going Green – Electric Vehicle Journey
- Azure VDI and Windows 365
- PBX with Microsoft Teams
- Azure Lakehouse
QUESTIONS