PPL EU Stakeholder Meeting – Energy Efficiency & Conservation

October 23, 2025

Agenda

- Commitment to Safety
- Phase V of Act 129
- Portfolio Overview
- Program and Components
 - Residential Program Update
 - Low Income Program Update
 - Non-Residential Program Update
 - PJM Forward Capacity Market Update
- Q&A, Discussion
 - You will be muted during the meeting, please use Q&A/chat function
- Wrap Up





Commitment to Safety

Fire Prevention

- 3 out of 5 home fire deaths occur in homes without smoke alarms or no working smoke alarms - National Fire Protection Association (NFPA)
- Space heaters are a leading cause of home fires, resulting in an average of 1,700 fires annually
- Carbon monoxide is a leading cause of accidental poisoning in the US according to the CDC
 - Detection: Install a smoke detector and CO monitor on every level and ideally in every bedroom.
 - Prepare for Heating Season: Have your chimney cleaned for wood burning and ensure your HVAC system is serviced before use.
 - Never Use Space Heaters: Electric space heaters are expensive and can cause electrical issues, especially in older homes. Avoid burning any unvented fossil fuel appliances in your home.



3

Phase V of Act 129

Phase V Preparation

- PPL EU will file our Phase V EE&C Plan on November 30, 2025
- The RFP process is currently underway for Phase V CSPs:
 - Business Energy Efficiency Program
 - Residential Energy Efficiency Program
 - Resource Constrained Energy Efficiency Program (Low-Income)
 - Evaluation, Measurement, & Verification
 - Energy Efficiency Marketing
 - Energy Efficiency Database & Tracking System
- The Company has met with the Pa Department of Environmental Protection on IRA funded program and potential program coordination for HER and HEAR
 - PPL EU is a participant in the Pa PUC's data sharing working group

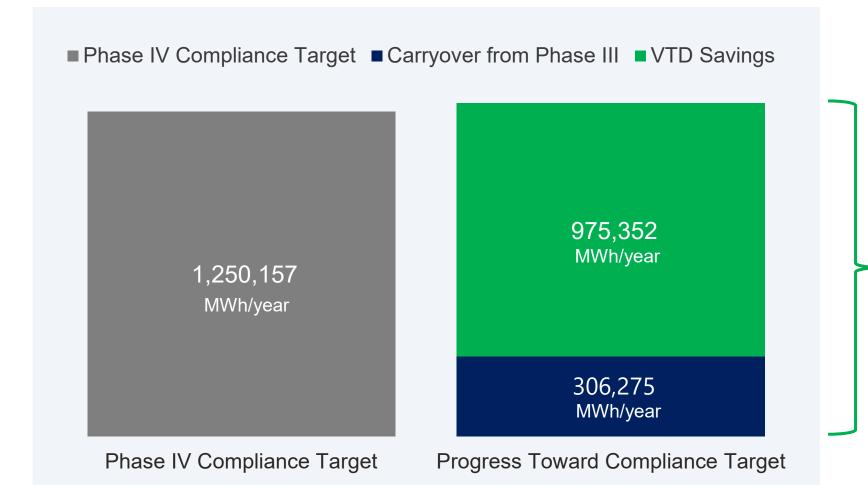


Portfolio Overview



5

Overview: Portfolio Savings (MWh)



The PPL Electric Utilities portfolio has saved 1,281,627 MWh/yr and has exceeded the compliance target by 3% with one year remaining in Phase IV.

Overview: Low-Income Savings (MWh)

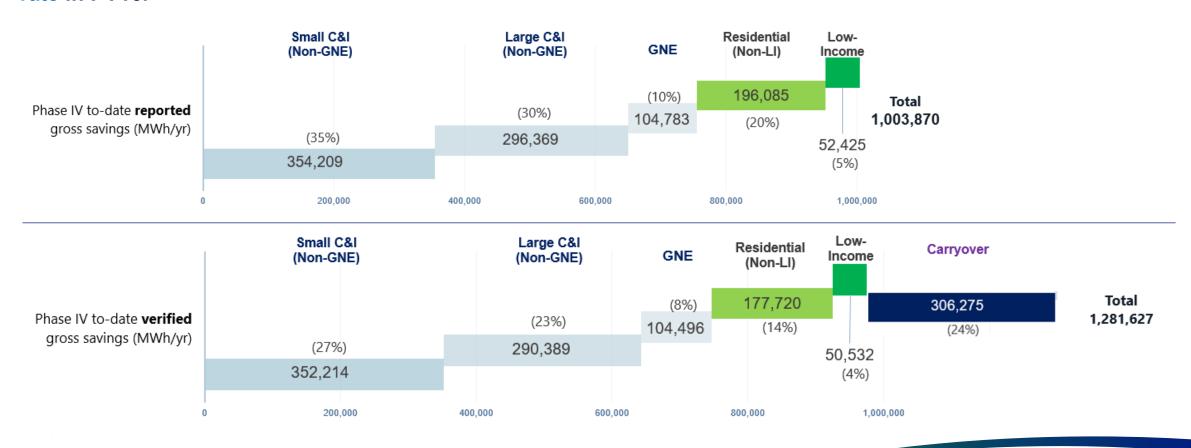


The Low-Income
Program has saved 82,703
MWh/yr and exceeded the compliance target by
14%.



Overview: Sector Savings (MWh)

Small C&I has achieved the **most savings** in Phase IV to-date, accounting for 27% of all verified portfolio savings. The portfolio will likely meet compliance targets without carryover. **The portfolio achieved a 95% energy realization** rate in PY16.



Totals may not sum due to rounding.

GNE – Government, nonprofit, and educational sector



Overview: Portfolio Savings (MW)

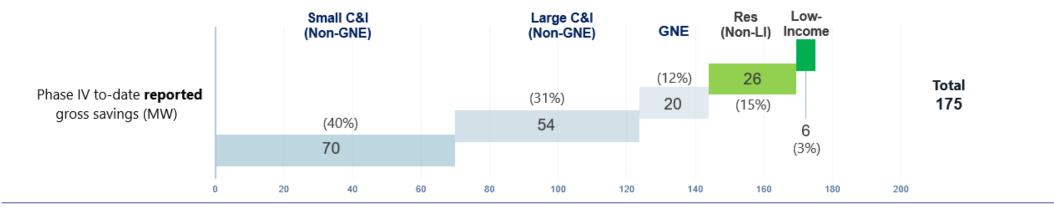


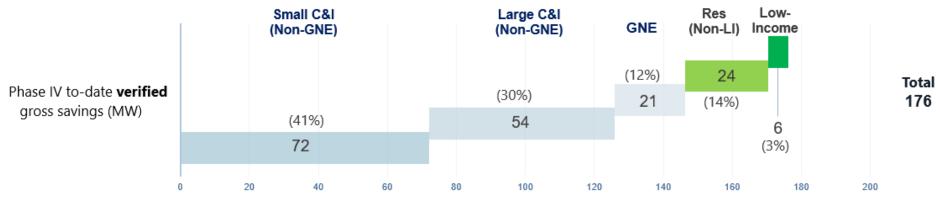
With one year left in Phase IV, PPL Electric Utilities has achieved 77% of its compliance target for peak demand reductions. We are on track to meet target for the phase.



Overview: Sector Savings (MW)

Small C&I achieved the most demand reductions in Phase IV to-date, representing **41% of all verified demand reductions to date**. There is no carryover for peak demand reductions in Phase IV. **The portfolio achieved a 94% demand realization rate in PY16.**



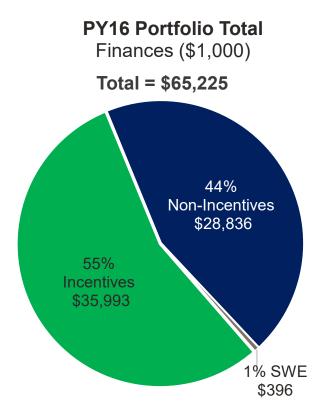


Totals may not sum due to rounding. GNE – Government, nonprofit, and educational sector

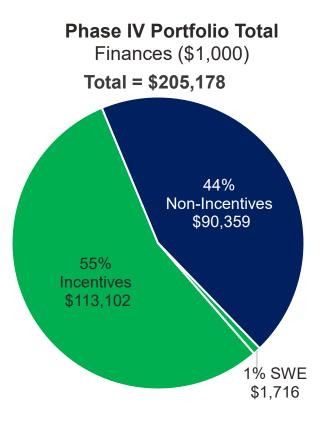


Overview: Portfolio Costs

55% of the total spend has gone directly to customer incentives. The **portfolio achieved TRC is 1.31 for PY16 and 1.42 in Phase IV**, ensuring customer affordability of program offerings.



Totals may not sum due to rounding.



Overview: Sector Costs

Non-Residential comprises 50% of Phase IV portfolio costs, Residential 23%, Low-Income 15%, and Common Portfolio Costs 12%.



Totals may not sum due to rounding. Values do not include SWE costs.



Programs and Components: Residential Program Update



13

Residential Program Components

Efficient Homes



Energy Savings

PY16: 25,389*

PTD:

103,381 MWh

Peak Demand

PY16: 1.82*

PTD:

9.99 MW

Appliance Recycling



Energy Savings

PY16: 10,963

PTD:

35,998 MWh

Peak Demand

PY16: 3.53

PTD:

9.80 MW

Student Energy Ed



Energy Savings

PY16: 5,160

PTD:

20,215 MWh

Peak Demand

PY16: 0.56

PTD:

2.07 MW

Energy Savings

Home Energy Reports

PY16: 7,562

PTD:

7,562 MWh

Peak Demand

PY16: - -

PTD:

- - MW**

Efficient Lighting was sunset though contributes 8,969 MWh and 1.41 MW to the Phase IV totals

* PY16 New Homes remained unverified ** There are no HERs peak demand in PY16

14

Residential Program

In the Community



- On August 17, 2025, the PPL Electric Utilities Residential Program Team supported Lehigh Valley Pride Festival.
- The group educated the community around available programs and held a recycled refrigerator painting contest.



Residential Program: Energy Efficient Homes



Energy Savings

PY16: 25,389

PTD:

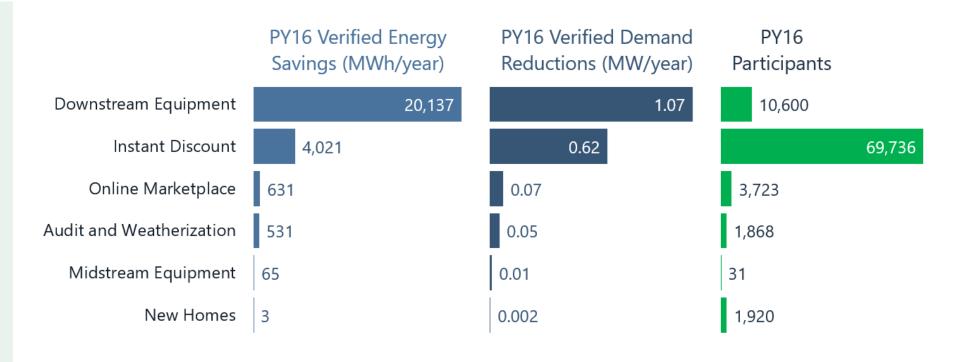
103,381 MWh

Peak Demand

PY16: 1.82

PTD:

9.99 MW



- EEH comprises 59% of energy savings and 43% of demand reductions to date
- Instant Discount/Online Marketplace participants are number of units sold
- New Homes is unverified in PY16
- 90% customer satisfaction



Residential Program: New Homes Channel



In the Community

- On September 24, 2025, PPL Electric Utilities New Homes Program celebrated its partners at the third annual recognition event in Hershey.
- 10 builders and raters were honored with awards, and the event drew over 20 total attendees.



Residential Program: Pilots

High Performance Homes

- Five homes
- 18 MWh/year verified Phase-to-Date
- 0.005 MW/year verified Phase-to-Date

High-Performance Homes
pilot helped prepare homes to
receive **Zero Energy Ready Home certification** through home audits
and webinars.

Deep Energy Retrofits

- Three participants
- 21 MWh/year unverified* Phase-to-Date
- 0.0007 MW/year unverified* Phase-to-Date

The Deep Energy
Retrofits pilot provides
bonus incentives for
upgrades (such as air sealing,
insulation, and HVAC equipment).

Residential Program: Appliance Recycling



Energy Savings

PY16: 10,963

PTD:

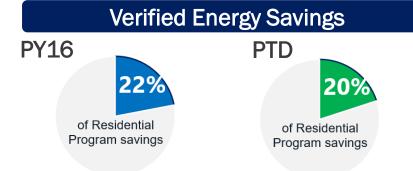
35,998 MWh

Peak Demand

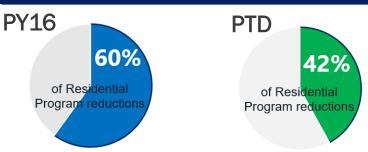
PY16: 3.53

PTD:

9.80 MW









- ARP comprises 20% of Residential Program savings, though represents 42% of peak demand reductions with 55,309 appliances recycled
- 96% customer satisfaction



Residential Program: Appliance Recycling

In the Community



- On September 20, 2025 the team accepted almost 800 units from over 500 customers at an appliance pickup event in Allentown
- PPL Electric Utilities also received almost 200 pounds of donated food for local food banks
- The team hosts multiple events across the territory each year



Residential Program: Student Energy Education



Energy Savings

PY16: 5,160

PTD:

20,215 MWh

Peak Demand

PY16: 0.56

PTD:

2.07 MW



Verified Demand Reductions





- The program is fully subscribed in PY17 for in-class presentations
- 20,204 student energy kits distributed in PY16
- 85% customer satisfaction



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Residential Program: Home Energy Reports



Energy Savings

PY16: 7,562

PTD:

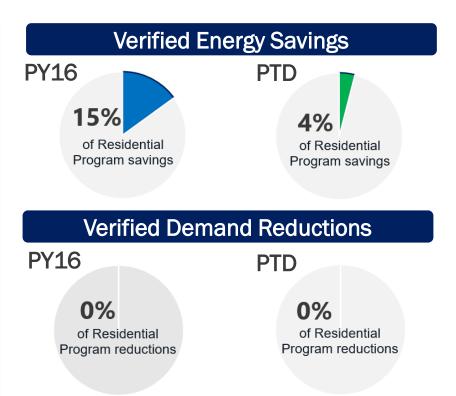
7,562 MWh

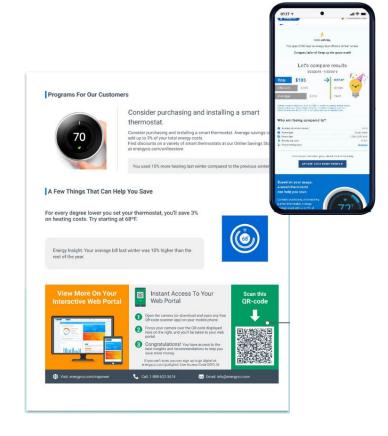
Peak Demand

PY16: - -

PTD:

- - **MW**





- Home Energy Reports are new for PY16
- There are no demand reductions because the component launched after the peak period



Business Use

Residential Updates

- Energy Analyzer launched in June 2025
 - Accessible via single sign on (SSO) through the customer online account portal, is now available to all 1.5 million residential and approximately 186,000 small and medium-sized business customers
 - Provides custom tips and highlights which appliances consume the most energy through disaggregation, helping customers identify the greatest opportunities for savings.
- PPL EU won a Gold MarCom Award for excellence in customer communications for appliance recycling in 2025
 - Drove 212K appliance recycling pageviews from 6.7 million ad impressions, 70K ad clicks and 2.8 million email opens







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Programs and Components: Low-Income Program Update



24

Low-Income Program: Status



Energy Savings

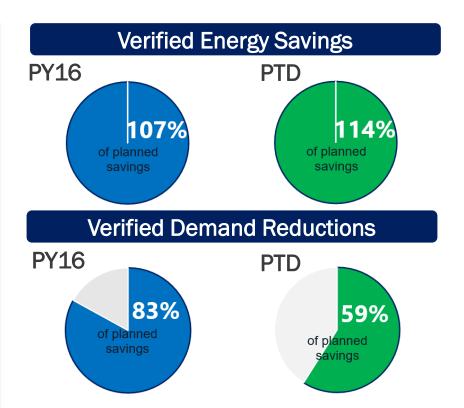
PY16: 15,530

PTD: 82,703 MWh

Peak Demand

PY16: 1.73

PTD: 5.82 MW





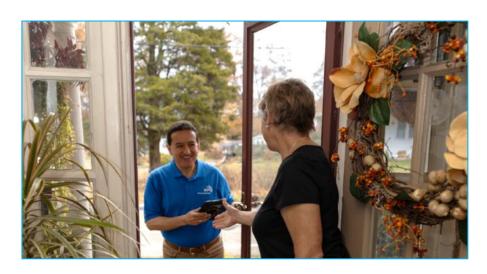
- Overall, the Low-Income program exceeded PY16 planned energy savings and has already exceeded Phase IV compliance targets for energy savings including Phase III carryover.
- 78% customer satisfaction



Low-Income Program: Updates

Multifamily

- 3,867 MWh/yr in PY16
- 14,183 MWh/yr PTD
- 1,441 assessments across 22 buildings in PY16
- Non-Res Program treated 23 affordable MMMF common spaces in PY16



Health and Safety Pilot

- Budget is used as a bridge to comprehensive measures
- Approximately \$739K utilized phase-to-date, \$311K in PY16
 - Plumbing repairs, stair repairs, expansion tanks, etc.

High Program Participation

- Over 40K Single Family, Multifamily and Welcome Kit recipients
 - Includes over 2,000 Remote Energy Assessments
 - 11,500 Direct Install Assessments



Low-Income Program: Updates

Community Outreach – Marketing materials were created for food banks and community centers to reach eligible customers.

OnTrack Coordination – The team continues to promote the program directly to new OnTrack customers and to those whose benefits may be expiring.

Appliance Replacement Outreach – Renewed outreach and coordinated scheduling to customers that are eligible for appliance replacements though have not taken advantage of the opportunity or missed appointments.





Low-Income Program

In the Community

Senator Scott Martin Senior Expo



Earth Day in the Park

- The Low-Income team attends a variety of community events including state senator and representative senior fairs.
- The team also participates in multifamily forums and conferences as well as larger events such as Allentown's Earth Day in the Park.



Programs and Components: Non-Residential Program Update



29

Non-Residential Program Components

Efficient Equipment Channels



Downstream

Energy Savings

PY16: 38,178

PTD:

176,263 MWh

Peak Demand

PY16: 6.07

PTD:

28.01 MW



Midstream

Energy Savings

PY16: 37,096

PTD:

112,366 MWh

Peak Demand

PY16: 8.61

PTD:

22.81 MW



Direct Discount

Energy Savings

PY16: 9,454

PTD:

81,605 MWh

Peak Demand

PY16: 1.55

PTD:

11.14 MW



Custom

Energy Savings

PY16: 150,260

PTD:

377,323 MWh

Peak Demand

PY16: 38.96

PTD:

85.09 MW



Non-Residential Program In the Community



- Derry Township Municipal Authority received over \$500,000 in incentives for their project
- The CHP project will save their facility over 5.7 million kWh. This equates to saving the environment from over 4,200 tons of CO2 emissions, or 433,000 gallons of gasoline consumed.



Business Use 31

Non-Residential Program: Efficient Equipment – Downstream



Energy Savings

PY16: 38,178

PTD:

176,263 MWh

Peak Demand

PY16: 6.07

PTD:

28.01 MW

Energy Savings: Downstream Lighting



Energy Savings:

Downstream

Equipment

Phase IV has saved 167,741 MWh/yr



Phase IV has saved 8,522 MWh/yr



PY16 saved 34,831 MWh/yr



PY16 has saved 3,346 MWh/yr



Efficient
Equipment had an overall 96%
customer
satisfaction level





Non-Residential Program: Efficient Equipment – Downstream



Energy Savings

PY16: 38,178

PTD:

176,263 MWh

Peak Demand

PY16: 6.07

PTD:

28.01 MW

Demand Reductions: Downstream Lighting

Demand

Reductions:

Downstream

Equipment

Phase IV has saved 26.81 MW/yr



Phase IV has saved 1.20 MW/yr



PY16 saved 5.72 MW/yr



PY16
has saved
0.35 MW/yr







Non-Residential Program: Efficient Equipment – Midstream



Midstream

Energy Savings

PY16: 37,096

PTD:

112,366 MWh

Peak Demand

PY16: 8.61

PTD:

22.81 MW

Energy Savings: Midstream Lighting



Energy Savings:

Midstream

Phase IV has saved 110,513 MWh/yr



Phase IV has saved 1,853 MWh/yr



PY16 saved 36,526 MWh/yr



PY16 has saved 570 MWh/yr







Non-Residential Program: Efficient Equipment – Midstream



Midstream

Energy Savings

PY16: 37,096

PTD:

112,366 MWh

Peak Demand

PY16: 8.61

PTD:

22.81 MW

Demand Reductions: Midstream Lighting

Demand

Reductions:

Midstream

Equipment

Phase IV has saved 22.09 MW/yr



Phase IV
has saved
0.72 MW/yr



PY16 saved 8.38 MW/yr



PY16 has saved 0.23 MW/yr







Non-Residential Program: Efficient Equipment - Direct Discount



Direct Discount

Energy Savings

PY16: 9,454

PTD:

81,605 MWh

Peak Demand

PY16: 1.55

PTD:

11.14 MW

Energy Savings: Direct Discount Lighting

Direct

Discount

Equipment

Phase IV has saved 77,879 MWh/yr

> 10% of Non-Residential Program savings

Phase IV **Energy Savings:** has saved 3,727 MWh/yr

> >1% of Non-Residential Program savings

PY16 saved 6,992 MWh/yr

3% of Non-Residential Program savings

> **PY16** has saved 2,461 MWh/yr

1% of Non-Residential Program savings





Non-Residential Program: Efficient Equipment - Direct Discount



Direct Discount

Energy Savings

PY16: 9,454

PTD:

81,605 MWh

Peak Demand

PY16: 1.55

PTD:

11.14 MW

Demand Reductions:
DD
Lighting

Phase IV has saved 10.35 MW/yr

7%
of Non-Residential Program savings

Demand
Reductions:
DD
Equipment

Phase IV has saved 0.79 MW/yr

1%
of Non-Residential
Program savings

PY16 saved 0.91 MW/yr

2%
of Non-Residential
Program savings

PY16 has saved 0.63 MW/yr

1%
of Non-Residential
Program savings





Non-Residential Program: Custom



Energy Savings

PY16: 150,260

PTD:

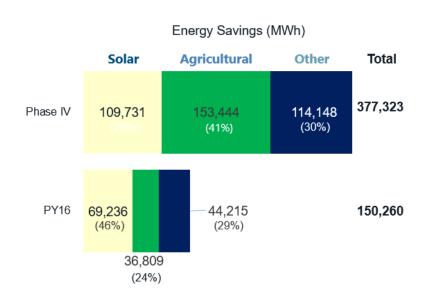
377,323 MWh

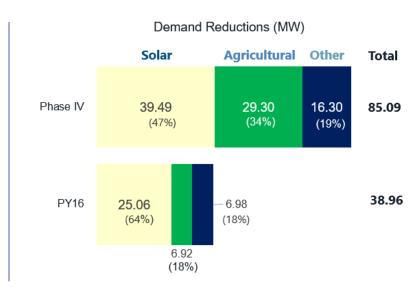
Peak Demand

PY16: 38.96

PTD:

85.09 MW





- In PY16, Solar projects contributed the most to both energy savings and demand reductions.
- Overall, in the Phase, Solar comprised nearly half of all demand reductions while Agricultural comprised over 40% of energy savings.
- 86% Customer Satisfaction



Non-Residential Program Updates

Program Updates

- Increased incentive rate for SCI to up to \$0.20/kWh/ 80% of total project costs for refrigeration upgrades, efficient lighting, compressed air and more
- Launched RCx Lite and additional midstream measures
- Expanded Building Operator Certification (BOC) to include level 2 class
- Fall BOC Level I PPL EU Cohort started September 2025 with Pennsylvania College of Technology – 30 participants, class fully enrolled



Programs and Components: PJM Forward Capacity Market Update



40

PJM Forward Capacity Market Service

Updates

- Updates to PJM rules have precluded energy efficiency as a resource for future auctions with no expectation of PJM FCM bidding or participation in Phase V for EE&C
- The qualified MW for PY16, with anticipated monetization in PJM 2025-2026, include the following:

Large C&I: 6.212 MW

Small C&I: 0.677 MW

Residential: 0.115 MW

Low-Income: 0.833 MW

■ PPL EU expects to return approximately \$959K to our customers in Phase IV.

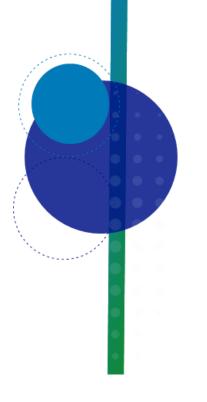


Questions & Answers



42

Thank You!



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Business Use