

# Multiphase Flow and Virtual Flow Metering Solutions Market Research

FIVE-YEAR MARKET ANALYSIS AND TECHNOLOGY FORECAST THROUGH 2023

## MULTIPHASE FLOW SOLUTIONS ADDRESS REAL-WORLD CHALLENGES

ARC investigated the global market for multiphase flow metering (MPFM) and virtual flow metering (VFM) solutions across onshore, offshore, and subsea market segments. The report provides quantitative analysis of both radioactive and non-radioactive-based MPFM and VFM technologies as well as separate consuming applications analysis for MPFM and VFM solutions.

ARC determined that the onshore segment comprised the largest majority of shipments, due in large part to the larger number of wells and decline in the subsea segment because of lower oil prices. The offshore segment comprised the second largest project location and is forecast for slower growth as operators continue to strive for the subsea factory of the future. The subsea segment is expected to recover as oil prices recover, delayed projects are restarted, and costs continue to drop.

MPFM and VFM suppliers are developing innovative measurement modalities and modeling technologies to overcome the challenges encountered in real-time multiphase flow measurements, often under extremely challenging environmental conditions. Variations in formations and environmental conditions make "one size fits all" MPFM or VFM solutions impossible.

The market for MPFM and VFM has been slow to evolve over the last 25 years, but due to continued advancement in sensing technologies and advanced modeling techniques empowered by machine learning, ARC believes that operators will now employ MPFM and VFM solutions on an ever growing number of wells since the operational and financial benefits are real.

For more information, please visit us at [www.arcweb.com/market-studies/](http://www.arcweb.com/market-studies/).

## STRATEGIC ISSUES

This report includes quantitative assessments and forecasts of MPFM and VFM segmentations, as well as discussions of world regions, project locations, technologies, and unique applications, addressing key questions such as:

- How large is the market potential for hardware, software, and services?
- Who are the leading suppliers of MPFM and VFM solutions?
- What are the strategic issues facing both suppliers and end users?
- Which applications offer the greatest growth opportunities for MPFM & VFM solutions?

## RESEARCH FORMATS

This research is available as a Market Intelligence Workbook (Excel) and/or a concise, executive-level Market Analysis Report (PDF), with or without detailed charts.

## RESEARCH FOCUS AREAS

### STRATEGIC ANALYSIS

Major, Regional, and Application Trends  
Strategies for Success

### COMPETITIVE ANALYSIS

Market Shares of the Leading Suppliers  
Market Shares by Region  
Market Shares by Methodology

MPFM

VFM

Market Shares by MPFM Application

Artificial Life Optimization

Custody Transfer

Fiscal Monitoring

Flow Assurance

Heavy Oil/SAGD

Mobile Well Testing

Production Allocation

Production Optimization

Reservoir Monitoring

Stationary Well Testing

Well Monitoring

Market Shares by VFM Application

MPFM Backup/Validation

MPFM Replacement

Production Allocation

Production Monitoring

Production Optimization

Market Shares by Revenue Category

Market Shares by Project Location

Market Shares by Technology

Market Shares by Configuration

Market Shares by Sales Channel

Market Shares by Customer Type

### MARKET FORECASTS

Overall MPFM and VFM Business

Shipments by Region

Shipments by Measurement Methodology

Shipments by MPFM Application

Shipments by VFM Application

Shipments by Revenue Category

Shipments by Project Location

Shipments by Technology

Shipments by Configuration

Shipments by Sales Channel

Shipments by Customer Type

### INDUSTRY PARTICIPANTS

The research identifies all relevant suppliers serving this market.

### Worldwide Multiphase Flow and Virtual Flow Metering Market

