

NorthStar HVAC Solutions is a commercial HVAC installation, service, and maintenance company currently generating approximately \$12 million in annual revenue.

The business serves approximately 420 active commercial customers, including about 110 recurring maintenance-contract customers. Revenue is currently generated from new installation/projects, service and repair, and recurring maintenance agreements. Management wants to increase annual revenue by 30% within the next 12 months, from \$12 million to \$15.6 million, while maintaining an EBITDA margin of at least 9% and avoiding excessive debt. The company needs to determine where the additional \$3.6 million in revenue should come from, what operational and financial constraints may prevent growth, and which initiatives should be prioritized. Consider opportunities including pricing, recurring maintenance contracts, customer retention, upselling existing customers, new customer acquisition, sales productivity, technician utilization, geographic expansion, and new service offerings. Analyze the attached financial information and help develop a realistic, measurable 12-month growth strategy.

Disiapkan sebagai Act as the CEO and CFO of a \$12M commercial HVAC company. Challenge my assumptions like an experienced executive, identify financial and operational risks, ask strategic questions, and help me build a practical plan to reach \$15.6M revenue within 12 months without sacrificing profitability or cash flow. · 17 Agustus 2026

Rekomendasi

NorthStar can pursue \$15.6M of revenue in the next 12 months, but the current plan is not yet financeable or operationally supported as written. The greatest flaw is not demand alone: management's proposed \$3.6M mix produces about \$1.24M of incremental gross profit, while the planned \$1.06M of incremental personnel cost leaves only about \$180K of incremental EBITDA. That would reduce company EBITDA margin from 9.0% to approximately 8.1%, before incremental vehicle leases, marketing, insurance, bad debt, or other growth-related overhead. To preserve a 9.0% EBITDA margin, incremental operating expense must be held to roughly \$914K, or NorthStar must create at least \$154K of additional gross-profit/overhead improvement beyond the current plan.

Opsi

Recommended: Controlled growth plan with a \$15.6M stretch target and profitability gates (strong)

Pursue the full revenue target, but change the revenue mix and sequence hiring against booked, margin-qualified demand. Target approximately \$1.50M of incremental projects, \$1.00M of service, \$0.75M of maintenance, and \$0.35M of controls, upgrades, and existing-customer cross-sell. This is more credible than relying on \$1.10M of first-year maintenance revenue, which is not supported by current maintenance pipeline or technician capacity. Make the final \$0.35M contingent on margin, labor capacity, and cash-collection performance. The plan requires strict project-margin controls, DSO reduction, phased support hiring, leased vehicles, and a minimum liquidity reserve.

Conservative: Commit to \$14.8M-\$15.1M while building the platform for \$15.6M (possible)

Set a committed operating plan around \$2.8M-\$3.1M of incremental revenue and treat the remaining \$0.5M-\$0.8M as upside. This reduces execution and cash-flow risk while allowing NorthStar to repair estimating,

change-order, billing, and technician staffing processes. It is prudent if technician recruiting is slow, project awards slip, or bank covenants/minimum-liquidity requirements are restrictive. The tradeoff is missing the stated 30% revenue goal.

Current management plan: \$1.5M projects, \$1.0M service, and \$1.1M maintenance (weak)

Do not approve without material revision. The \$1.1M maintenance target has only 40% management confidence, versus a \$680K probability-weighted pipeline and roughly \$240K of first-year added maintenance-technician capacity. Existing maintenance labor has some headroom, but the stated plan still appears short of capacity after accounting for retention, growth, scheduling, and peak-season work. More importantly, the full staffing plan likely drives EBITDA below the 9% threshold.

Risiko

- The current growth plan is EBITDA-dilutive. At the stated incremental mix and gross margins, incremental gross profit is approximately \$1.24M. Less \$1.06M of planned incremental personnel cost, NorthStar generates only approximately \$180K of incremental EBITDA, or an estimated 8.1% company EBITDA margin at \$15.6M of revenue.
- Installation growth is the largest margin and cash-flow risk. Eighty-five percent of project work is fixed price, current project gross margin is only 24%, and recent estimating, overtime, subcontractor, rework, warranty, and unapproved-change-order failures created material leakage.
- The fifth installation crew has a first-year revenue capacity of only approximately \$1.15M-\$1.20M, not the \$1.5M mature capacity. The project target therefore also depends on improving existing-crew productivity, pricing discipline, and schedule performance.
- Service is attractive economically at a 42% gross margin, but 14% overtime, 72% billable utilization, and two open technician roles show that dispatch discipline and recruiting are immediate constraints. Adding demand before staffing and dispatch improve will create overtime and customer-service problems.
- Maintenance is strategically valuable because it has a 36.5% gross margin and favorable cash conversion, but management is assuming \$1.1M of first-year growth without enough qualified pipeline, ARR bookings, or clearly available labor capacity.
- Current DSO of 64 days, \$525K of AR aged 31-60 days, \$315K aged 61-90 days, and \$210K aged over 90 days are unacceptable for a company planning project-led growth. The \$95K of disputed or doubtful AR and \$180K of retainage further reduce practical liquidity.
- Growth requires approximately \$400K-\$500K of normalized incremental working capital, with potential peak need of \$550K-\$700K if project billing or collection timing slips. This is meaningful relative to \$1.15M of cash and \$750K of available revolver capacity.
- Immediate startup cash needs are approximately \$340K under the vehicle-leasing approach, before working-capital needs. Purchasing vehicles outright would materially increase liquidity pressure and is not recommended.
- The current weighted pipeline of \$4.45M is not equivalent to \$4.45M of next-12-month revenue. Installation projects may close or begin too late to convert fully into revenue during the planning period.
- NorthStar has no disclosed covenant, borrowing-base, fixed-charge-coverage, or minimum-liquidity information. Management should not assume the full \$750K revolver availability is usable until the credit agreement and borrowing base are reviewed.

Langkah berikutnya

- Approve a two-level plan: a committed \$15.0M operating plan and a gated \$15.6M stretch plan. Release the final growth investments only when pipeline, gross-margin, staffing, and liquidity gates are met.
- Set an EBITDA protection rule: incremental operating expense, excluding directly billable labor already included in cost of sales, must not exceed approximately \$914K for the next-12-month growth plan unless incremental gross profit increases proportionately. Require every monthly forecast to show revenue, gross profit, EBITDA, cash, revolver usage, DSO, backlog, and labor utilization.
- Hire the four installation employees, two service technicians, and one maintenance technician only against a documented recruiting and deployment calendar. Prioritize the two service technicians first because service has the best gross margin and the most acute overtime constraint.
- Lease the five vehicles rather than purchase them. Preserve cash by limiting initial startup capex to roughly \$340K and finance or lease selected high-cost diagnostic equipment where economics are favorable.
- Phase support hires. Add the Sales/Account Manager immediately only if the role has a named-account and maintenance/service-growth book of business. Add the Dispatcher/Service Coordinator when service call volume or utilization exceeds defined thresholds. Add the Project Manager only after at least \$1.2M of qualified incremental project backlog is awarded at approved margin. Delay the billing administrator until revenue exceeds \$14.5M or billing capacity demonstrably constrains DSO.
- Launch a 90-day cash-conversion program: reduce DSO from 64 days to 52 days or less, reduce over-90-day AR from \$210K to under \$75K, resolve or reserve the \$95K disputed/doubtful balances, issue service invoices within 24 hours, invoice project milestones weekly, and require signed change orders before non-emergency scope proceeds. A 12-day DSO reduction on the current revenue base releases roughly \$395K of cash.
- Install a project-risk gate: no fixed-price project may be accepted below a 27% estimated gross-margin floor without CEO/CFO approval; all jobs above \$100K require estimate review, labor-hour budget, equipment-price verification, subcontractor validation, schedule review, and documented change-order authority.
- Set a maintenance recovery plan focused first on protecting the installed base. Raise renewal rate from 87% to 92%-93%, which protects roughly \$120K-\$145K of ARR relative to current churn. Apply a minimum 4.5%-6.0% renewal increase subject to account profitability, and require executive involvement in all top-20, high-risk, or greater-than-\$50K ARR accounts.
- Recast the maintenance target. Plan for approximately \$0.75M of incremental first-year maintenance revenue, not \$1.1M, unless NorthStar adds at least one more maintenance technician or creates equivalent capacity through route redesign, selective subcontracting, and documented labor productivity gains. Require approximately \$1.0M-\$1.2M of net new/expanded maintenance ARR bookings to support this goal because contracts will start throughout the year.
- Concentrate sales resources on existing customers, referrals, and partner channels, where conversion is materially stronger than outbound and competitive bid channels. Build account plans for the 110 maintenance accounts and completed-project customers, with offers for controls, equipment replacement, IAQ, energy-efficiency upgrades, emergency-response agreements, and additional locations.
- Create a weekly CEO/CFO growth meeting with a one-page scorecard. Escalate immediately if gross margin falls below plan, service overtime exceeds 10%, maintenance utilization exceeds 85% without staffing action, DSO exceeds 58 days, unrestricted cash falls below \$500K, or revolver utilization exceeds 50% before seasonal peak.

- Obtain and review the revolver and term-debt agreements before final approval. Key strategic questions are: What are the actual borrowing-base restrictions and covenants? What minimum cash level is required by the bank and prudent for the business? Can fleet leases or financed equipment affect leverage calculations? Which customer deposits can be increased on new installation contracts? Which project opportunities meet the revised 27% margin floor after realistic labor and subcontractor assumptions?

Laporan lengkap

Decision report

Recommendation

NorthStar should pursue the \$15.6M target as a stretch outcome, not as an unconditional operating commitment. The company has enough market opportunity, customer relationships, and backlog to support growth, but its current plan assumes more maintenance growth than its pipeline and labor base can support, while adding a cost structure that likely reduces EBITDA margin below the required 9.0%.

The recommended approach is to build a committed plan to approximately \$15.0M of revenue, with a controlled path to \$15.6M only after NorthStar meets explicit pipeline, staffing, margin, collections, and liquidity gates. The company should favor service, maintenance retention/expansion, and existing-customer cross-sell over low-margin competitive project work. Installation remains important, but it must be run under much stronger estimating, change-order, and project-control discipline.

Financial reality check

| Metric | Current | Management growth plan implication | ---|---:---: | Revenue | \$12.0M | \$15.6M | | Gross margin | 31.0% | Incremental mix assumes 34.4% | | EBITDA margin | 9.0% | Approximately 8.1% under stated staffing plan | | Current EBITDA | \$1.08M | Minimum EBITDA required at \$15.6M: \$1.404M | | Required incremental EBITDA | — | \$324K | | Estimated incremental gross profit | — | Approximately \$1.238M | | Planned incremental personnel cost | — | Approximately \$1.058M | | Estimated incremental EBITDA before other growth costs | — | Approximately \$180K | | EBITDA gap versus 9% target | — | Approximately \$144K, before vehicle leases and other growth costs |

The key point is straightforward: NorthStar cannot add \$3.6M of revenue simply by adding people and assume profitability will hold. The planned mix is gross-margin accretive, but not enough to fund the full personnel build-out. At \$15.6M of revenue, the company can carry only about \$914K of incremental operating expense if it is to maintain a 9.0% EBITDA margin at the assumed incremental gross-profit profile. The current personnel plan is already roughly \$144K above that limit, before considering increased marketing, fleet lease expense, insurance, systems, and potential credit losses.

Recommended incremental revenue bridge

| Incremental source | Next-12-month revenue target | Primary enablers | Key constraint | ---|---:---:---: | Installation/projects | \$1.50M | Fifth crew, better existing-crew productivity, selective price improvement, awarded backlog conversion | First-year fifth-crew capacity; fixed-price execution risk | | Service/repair | \$1.00M | Two technicians, utilization from 72% toward 78%, pricing, emergency work, account cross-sell | Recruiting, dispatch capacity, overtime control | | Maintenance | \$0.75M | Retention improvement, renewal price increases, existing-account expansion, targeted new contracts | Pipeline and maintenance labor capacity | | Controls/upgrades/cross-sell | \$0.35M | Installed-base campaigns, project completion handoffs, maintenance-account

selling | Must not consume unplanned project-management or field capacity | | Total | \$3.60M | Phased and gated execution | Full target remains a stretch |

This mix is deliberately different from management's original \$1.1M maintenance assumption. Maintenance should remain a strategic priority, but NorthStar should not budget \$1.1M of first-year maintenance revenue until it has sufficient ARR bookings and labor capacity.

Operational plan

1. Protect the maintenance base before pursuing aggressive new-logo growth

NorthStar's \$2.4M maintenance base produces approximately \$877K of annual gross profit and supplies the highest-quality customer relationships in the company. A 92%-93% renewal rate, versus the current 87%, protects roughly \$120K-\$145K of ARR that would otherwise churn.

Required actions:

- Begin top-20 account renewal plans at T-120 days and require CEO/Sales Director participation on high-risk accounts.
- Require renewal proposals by T-75, clear customer commitment by T-30, and executive escalation at T-15.
- Set a 37% maintenance gross-margin target; contracts below 35% require management approval.
- Raise renewal pricing by 4.5%-6.0% where service performance and contract economics justify it.
- Build expansion offers around added locations, equipment additions, controls, filters, inspections, asset-condition assessments, and energy upgrades.

2. Make service the primary near-term growth engine

Service has the best current gross margin at 42%, a short sales cycle of approximately 18 days, and a 58% win rate. It should be the first staffing priority.

Required actions:

- Fill the two service technician roles before peak demand creates further overtime pressure.
- Raise billable utilization from 72% to at least 78% through scheduling, routing, dispatch discipline, parts availability, and reduced non-billable callbacks.
- Reduce service overtime from 14% toward 10% or less.
- Invoice completed service work within 24 hours and resolve disputed service tickets before they age.
- Use maintenance and completed-project accounts as the lead source, rather than relying primarily on low-conversion outbound prospecting.

3. Grow projects selectively, not indiscriminately

The fifth crew can create meaningful capacity, but it does not justify accepting poorly priced or poorly scoped projects. Recent margin leakage demonstrates that NorthStar's project process must be repaired before volume is accelerated.

Required actions:

- Establish a 27% estimated gross-margin floor for fixed-price projects, subject to executive approval for exceptions.
- Require pre-bid review for all projects above \$100K.
- Validate labor assumptions, equipment costs, crane/subcontractor exposure, schedule constraints, and design/controls scope before proposal issue.
- Do not perform non-emergency out-of-scope work without written change-order authority.
- Track every project weekly against budgeted labor hours, material cost, subcontractor cost, earned revenue, approved change orders, billing status, and forecast final margin.

4. Phase support costs rather than hiring the full organization on day one

NorthStar needs additional organizational capacity, but it should not lock in all overhead before revenue is booked and executing at margin.

Recommended sequence:

- Recruit field labor immediately, with service technicians prioritized.
- Add the Sales/Account Manager if the individual has a defined role in maintenance, service, and named-account expansion.
- Add Dispatcher/Service Coordinator only when service volume and utilization justify the role.
- Add Project Manager after sufficient awarded project backlog exists, preferably at least \$1.2M of incremental margin-qualified backlog.
- Delay the billing administrator until revenue exceeds \$14.5M or DSO/billing-cycle data proves the need.

Cash and working-capital plan

NorthStar has \$1.15M of cash, \$750K of undrawn revolver availability, and approximately \$1.5M of interest-bearing debt. The company is not currently overlevered based on the limited information available, but projected growth could consume liquidity quickly.

Cash rules

- Lease fleet vehicles; do not purchase all five vehicles with cash.
- Maintain minimum unrestricted cash of \$500K.
- Avoid revolver usage above 50% without CEO/CFO review and a documented cash forecast.
- Reserve \$400K-\$500K for normal growth working capital and plan for a potential \$550K-\$700K peak requirement.
- Review all bank covenants, borrowing-base calculations, and minimum-liquidity provisions before committing to the full hiring and capex plan.

Collections program

NorthStar should target DSO of 52 days or less, versus 64 days currently. A 12-day improvement on the current revenue base represents roughly \$395K of cash release.

Immediate actions:

- Reduce over-90-day AR from \$210K to less than \$75K.
- Resolve, settle, or reserve the \$95K of disputed/doubtful receivables.
- Bill service within 24 hours of completion.
- Invoice project progress weekly against documented milestones.
- Obtain deposits and equipment-order funding on all new project contracts.
- Require signed change orders before proceeding with non-emergency scope.
- Assign a single owner for every balance greater than 60 days.

Monthly operating scorecard

The CEO and CFO should review the following every week, with a formal monthly forecast:

| Category | Required metric | Trigger for intervention | |---|---|---| | Revenue | Bookings, backlog, recognized revenue by line | Revenue forecast below \$15.0M committed plan | | Margin | Gross margin by job, service, maintenance | Project margin below estimate or company GM below plan | | EBITDA | Rolling 12-month and forecast EBITDA margin | Forecast below 9.0% | | Labor | Service utilization, maintenance utilization, overtime, open roles | Service OT above 10%; maintenance utilization above 85% without staffing action | | Cash | Cash balance, revolver draw, 13-week cash forecast | Cash below \$500K or revolver use above 50% | | Collections | DSO, AR aging, disputed balances | DSO above 58 days or over-90 AR above \$75K | | Sales | Pipeline coverage, conversion, bookings by source | Insufficient qualified pipeline for next 90-180 days |

Decision

Approve the controlled-growth strategy, not the original unmodified plan. NorthStar should target \$15.6M, but only release the final stretch investments and accept the final tranche of lower-certainty growth when the company has: (1) qualified margin-approved backlog, (2) staffed field capacity, (3) DSO trending toward 52 days, (4) at least \$500K of unrestricted cash, and (5) an EBITDA forecast at or above 9.0%.

The company can grow without excessive debt, but only if it converts growth into cash, protects project margins, and refuses to confuse booked revenue with profitable, collectible revenue.

